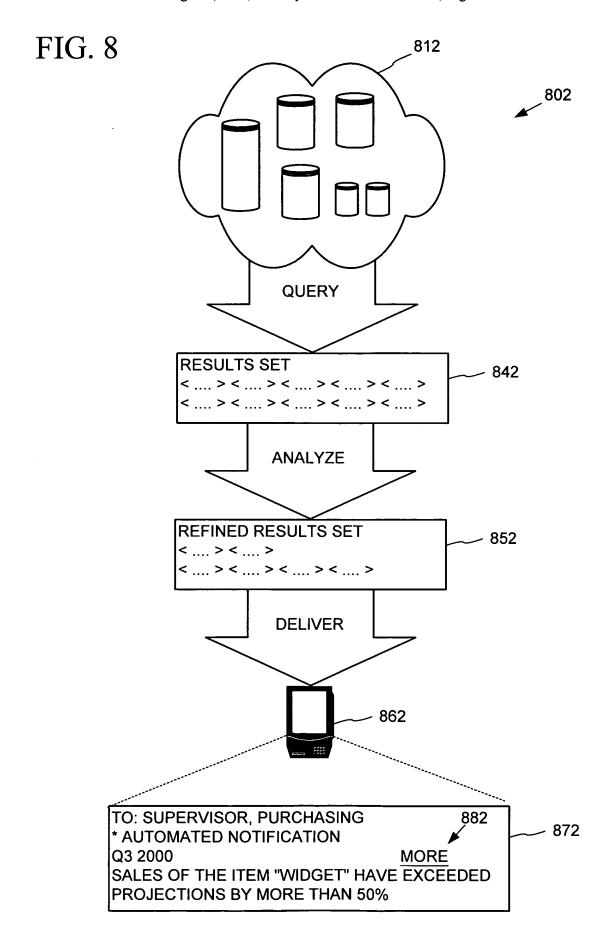
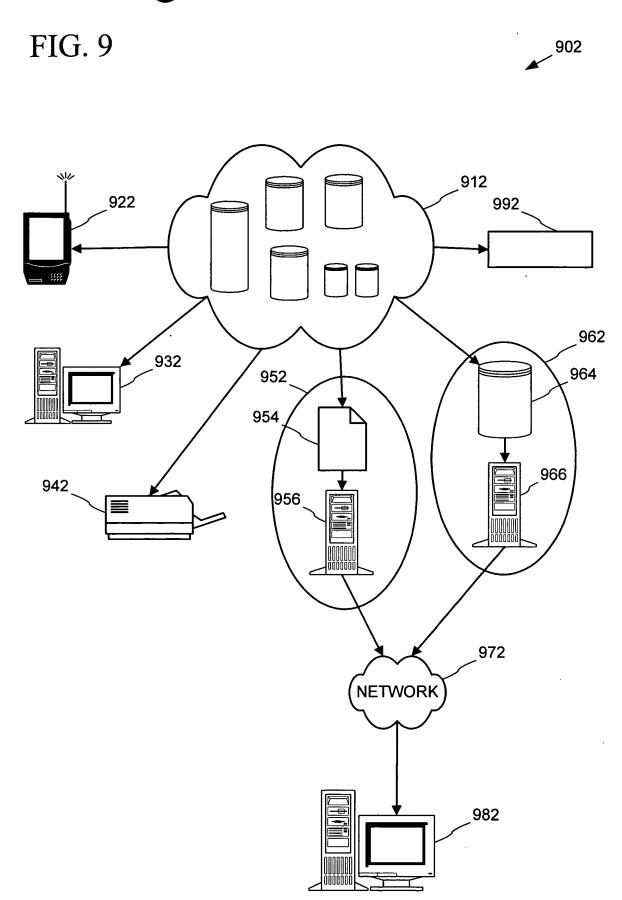


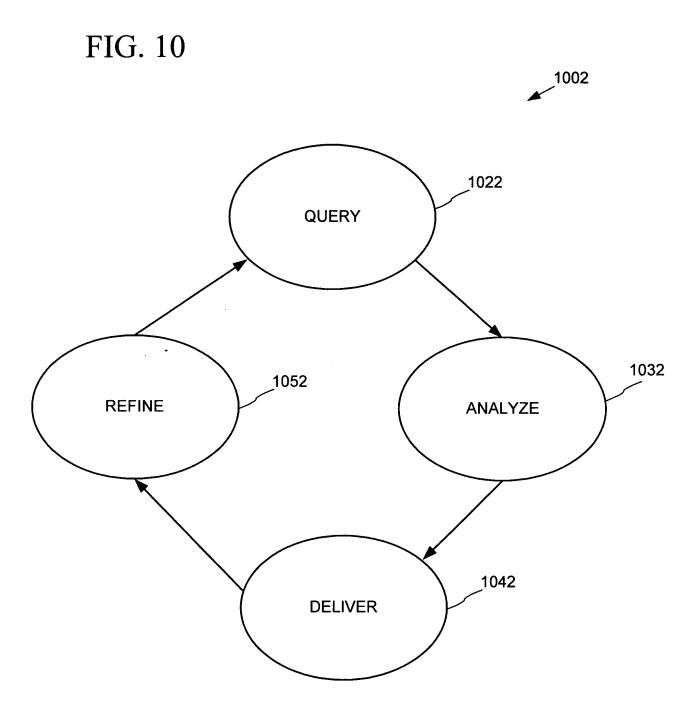
COSELOS CIRCA

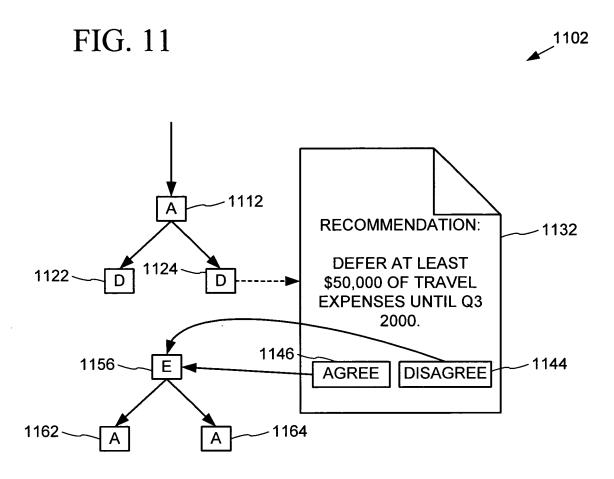












Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESSINFORMATION FROM A DATA COLLECT Application No. 09/925,103, Filed: Sust 9, 2001, Attorney Docket No.: 6115-60713, Suge 12 of 103

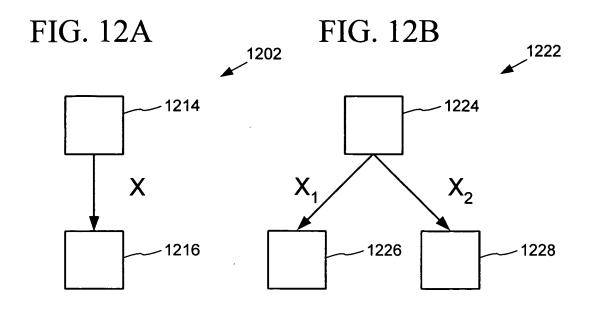
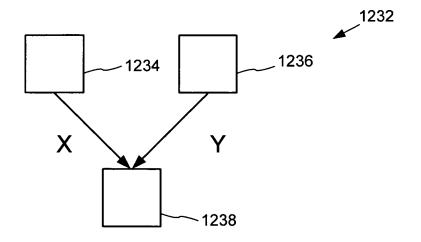
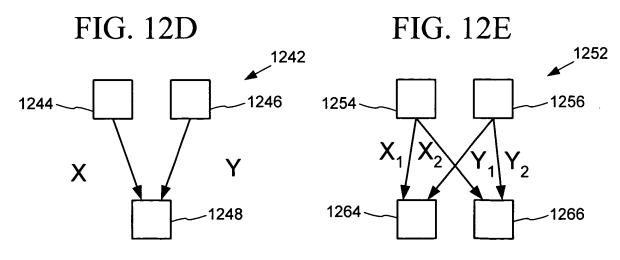


FIG. 12C





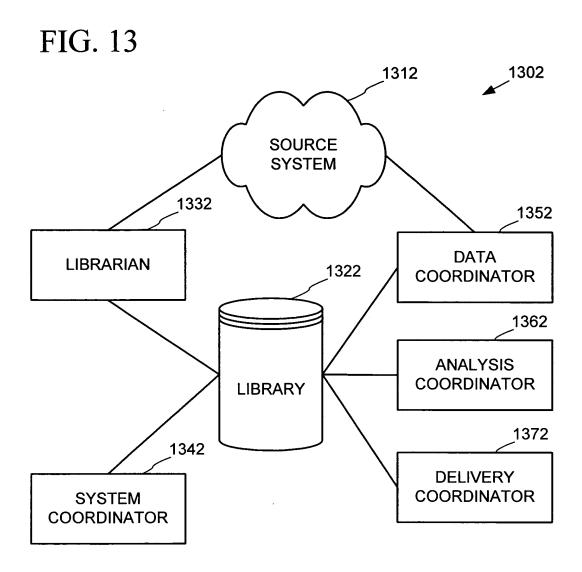
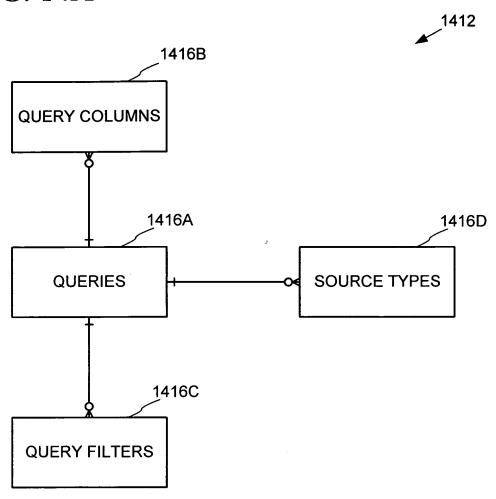


FIG. 14A



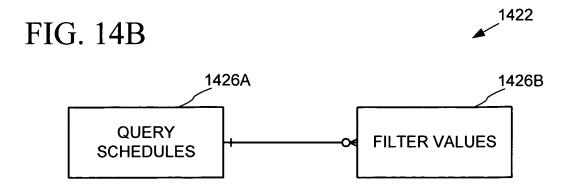
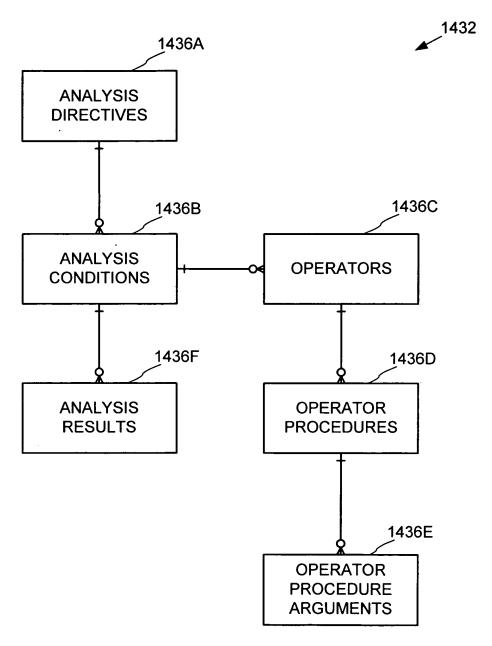
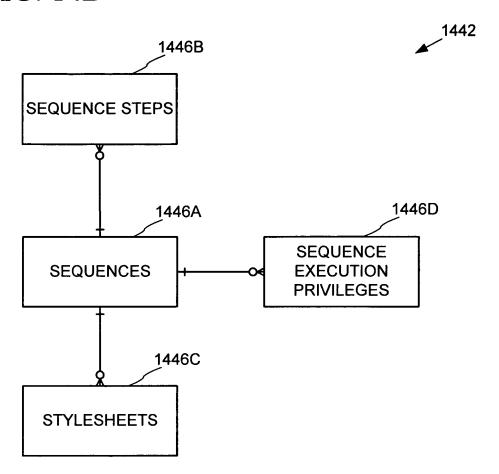


FIG. 14C



COSTELLE LOILE

FIG. 14D



CTGESLOS "CICTOR

FIG. 14E

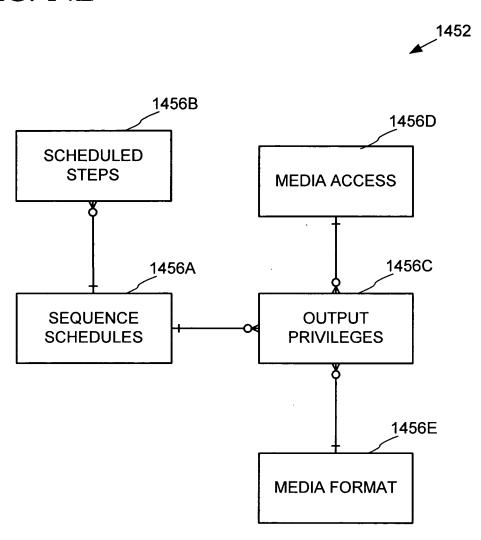
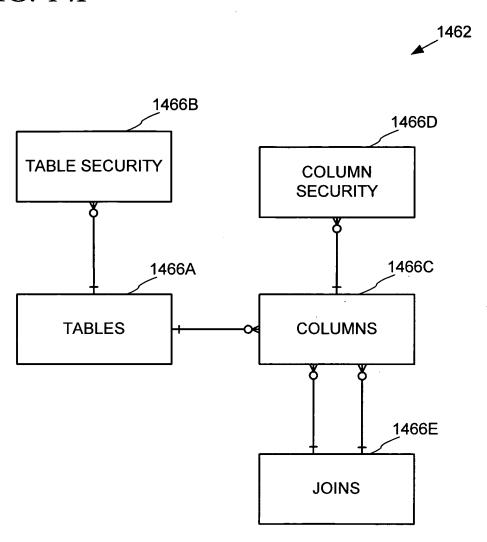
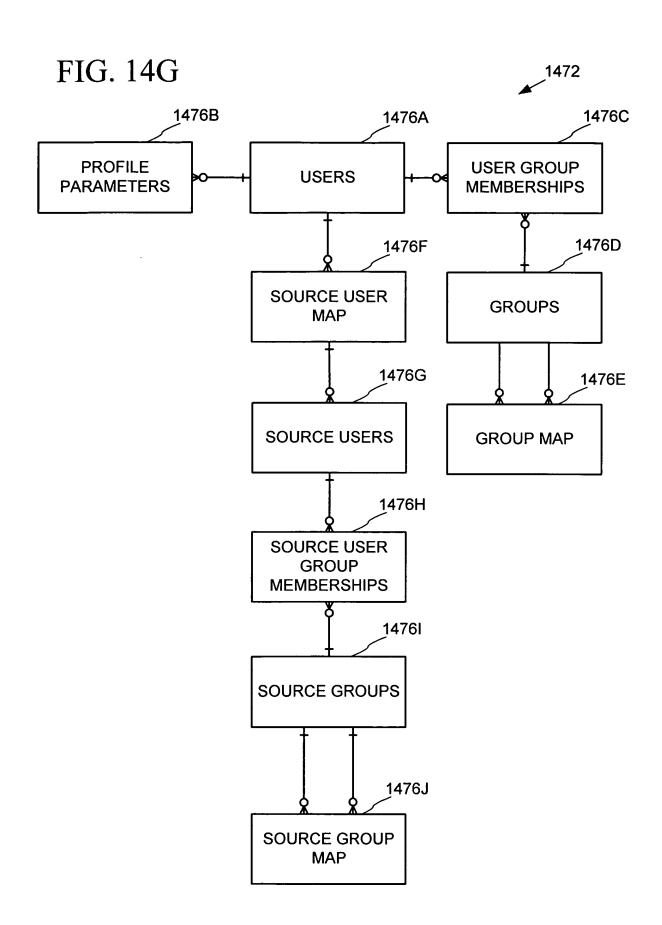
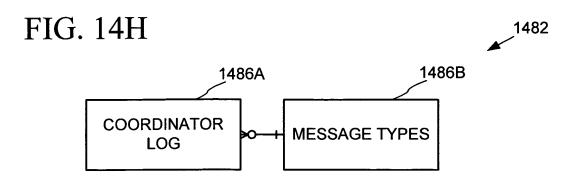


FIG. 14F







IG. 15A

	g	QUERY DIRECTIVES	IIVES				
NAME	DESC	SOURCE	USER	STATUS		OPTION	
NEW	NEW	SYSTEM A ▼ NB	NB	AVAILABLE	•	ADD	
CC1	COST CENTER	SYSTEM A	出	AVAILABLE	•	MOD	<u> </u>
AR-PTD	PERIOD TO DATE SYSTEM B	SYSTEM B	rs	AVAILABLE	▶	MOD	Γ
REV	PTD REVENUE	SYSTEM B	ST	AVAILABLE	•	MOD	T.
 FIN	FINANCIALS	SYSTEM B	FS	AVAILABLE	•	MOD	Γ
SALES	SALES BY DEPT SYSTEM B	SYSTEM B	ST	AVAILABLE	▶	MOD	<u> </u>

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IG. 15B

QUERY:NEW QUERY TABLE COLUMN GB? ST XML TAG ROR? SORT ACCOUNTING_DATE_D ▼ SELECT COLUMN AR_RCPT_STATUS_D AR_SCH_PMT_DTL_F AR_SCH_PMT			QUE	TY TAB	QUERY TABLE & COLUMNS	UMNS			
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AR_REVENUE_F AR_SCH_PMT_DTL_F AR_SHIP_VIA_D AR_SOLD_TO_CUST_D ASSET_BOOK_D ASSET_EMPLOYEE_D ASSET_INVENTORY_F ASSET_TYPE_D ASSET_TYPE_D AUTHORIZER_D	AR_RCT_REV_RESN_D								
AR_SCH_PMT_DTL_F AR_SHIP_VIA_D AR_SOLD_TO_CUST_D ASSET_BOOK_D ASSET_EMPLOYEE_D ASSET_INVENTORY_F ASSET_TYPE_D AUTHORIZER_D	AR_REVENUE_F	T	٠						
AR_SHIP_VIA_D AR_SOLD_TO_CUST_D ASSET_BOOK_D ASSET_EMPLOYEE_D ASSET_INVENTORY_F ASSET_TYPE_D AUTHORIZER_D	AR_SCH_PMT_DTL_F	T							
ASSET_BOOK_D ASSET_EMPLOYEE_D ASSET_INVENTORY_F ASSET_TYPE_D AUTHORIZER_D	AR_SHIP_VIA_D AR_SOLD_TO_CUST_D								
ASSET_EMPLOYEE_D ASSET_INVENTORY_F ASSET_TYPE_D AUTHORIZER_D	ASSET_BOOK_D								
ASSET_INVENTORY_F ASSET_TYPE_D AUTHORIZER_D ▼	ASSET_EMPLOYEE_D								
ASSET_TYPE_D AUTHORIZER_D ▼	ASSET_INVENTORY_F								
AUTHORIZER_D ▼	ASSET_TYPE_D	_							
	AUTHORIZER_D								

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SORT ADD ROR? Z XML TAG QUERY TABLE & COLUMNS ST GB? DESC DEPARTMENT_KEY COLUMN DEPARTMENT DEPARTMENT DEPARTMENT QUERY:NEW QUERY **DEPARTMENT D**

IG. 15D

QUERY:NEW QUERY	QUERY TABLE & COLUMNS	BLE & C	OLUMN	ıs		
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	₩	ADD COLUMN DONE	NWIN			

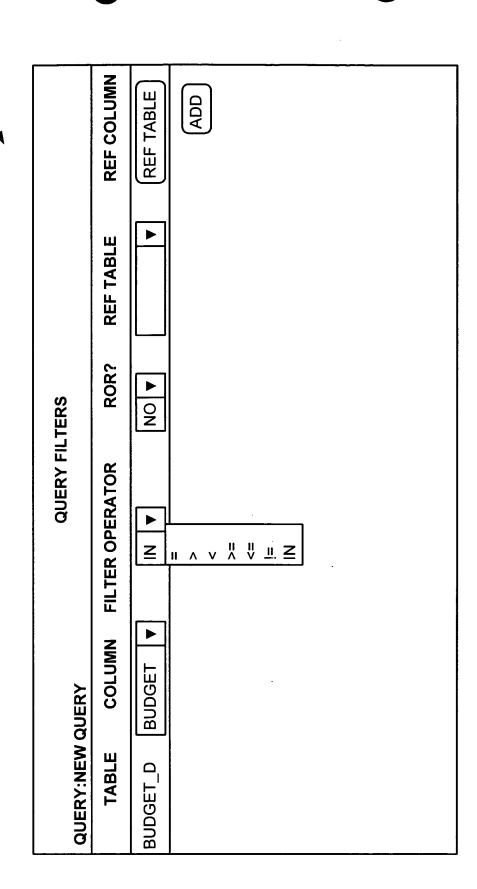
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	OUERY TABLE & COLUMNS	BLE&C	OL UMN	S		
QUERY:NEW QUERY		 				
TABLE	COLUMN	GB?	ST	XML TAG	ROR?	SORT
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INC_STMT_LINES_D	LINE_NAME	>		LINE_NAME	z	
INCOME_STMT_A	PTD_ACTUAL	z	SUM	PTD_ACTUAL	z	
INCOME_STMT_A	PTD_BUDGET	z	SUM	PTD_BUDGET	z	
INCOME_STMT_A	PTD_VARIANCE	z	SUM	PTD_VARIANCE N	z	
	◀)	ADD COLUMN DONE	NIMU:			

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FIG. 15F



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PERIOD_D PI	PERIOD	II	z		
DEPARTMENT_D DEPARTMENT	EPARTME	= LN:	z	DEPARTMENT_D	DEPARTMENT_D DEPARTMENT_KEY
		ADD FILTER FINISH			

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TG. 15H

JIRECTIVE: NEW QUERY	LAST RUN DATE OPTIONS	ADD	
ANALYSIS SUBSEQUENCE SSEQUENCE TO THE QUERY D	RESULTS TYPE	SHOW	
ANALYSIS S YSIS SUBSEQUENCE	USER NAME	NB	
ANALYSIS SUBSEQUENCE YOU ARE TYING THIS ANALYSIS SUBSEQUENCE TO THE QUERY DIRECTIVE: NEW QUERY	ANALYSIS SUBS NAME	INCOME STMT ANALYSIS	

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE

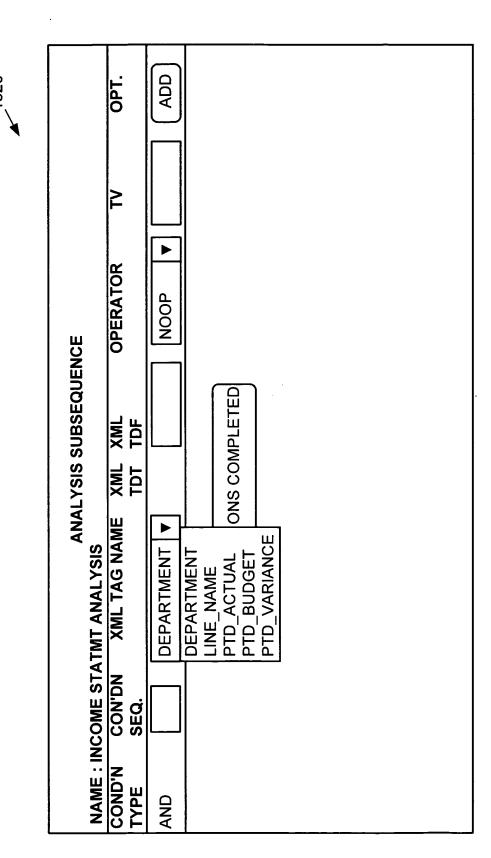
FIG. 15I

	<u> </u>		 		
	OPT.	ADD			
	VI				
ICE	OPERATOR	NOOP ▼			
ANALYSIS SUBSEQUENCE	XML XML TDT TDF		ADDITIONS COMPLETED		
ANALYSIS	COND'N CON'DN XML TAG NAME >> TYPE SEQ.	DEPARTMENT ▼	ADDITIONS		
COME STATA	CON'DN SEQ.				
NAME: INC	COND'N TYPE	AND			

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 30 of 103

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OPT. ADD **AVG WITHING PCT** AVG OUT PCT **BOTTOM PCT AVG WITHIN** < AVG PCT > AVG PCT **OPERATOR AVG OUT BOTTOM** TOP PCT > AVG < AVG NOOP **ANALYSIS SUBSEQUENCE** ADDITIONS COMPLETED XML **TDF** XML TOT XML TAG NAME NAME: INCOME STATMT ANALYSIS PTD ACTUAL CON'DN SEQ. COND'N TYPE AND

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				LYSIS	ANALYSIS SUBSEQUENCE	ENCE			
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COND'N	CON'DN SEQ	Z	XML TAG NAME	XML	XML	OPERATOR		≥	OPT
AND			DEPARTMENT ▼			NOOP	▶		ADD
AND	-		PTD_ACTUAL ▼			♦	▶	0	MOD DEL
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AND	3		PTD_VARIANCE ▼			TOP PCT	•	10	MOD DEL
			ADDITIONS COMPLETED	IS CON	PLETED				

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FIG. 15M

ADD,	ADD, EDIT OR DELETE SEQUENCES	SEQUENCES				
QI	NAME	DESCRIPTION	STATUS USER OPT	9	JSER	OPT
	INCOME STAT'T ANALYSIS	INCOME STAT'T ANALYSIS	AVAIL		NB	ADD
24	FINANCIAL STATEMENT	FINANCIAL STATEMENT	AVAIL	•	LS	MOD
25	FSV	FSV	AVAIL	•	RB	MOD
26	COST CENTER SCORING 1	COST CENTER SCORING	DISAB		S]	MOD
27	27 COST CENTER SCORING 2	CSS PTD-VARIANCE	AVAIL TS MOD	▶	rs	MOD

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15N

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SEQUI	<u>□</u>	28	

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SEQ	UENCE	ADD OR EDIT SEQUENCE STE SEQUENCE NAME: INCOME STATEMENT ANALYSIS	ADD OR EDIT SEQUENCE STEP INFORMATION COME STATEMENT ANALYSIS	RMATION	
₽	STEP DIR	DIRECTIVE TYPE	DIRECTIVE ID LUB	TUB LUD	
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IG. 15P

CREATE **DISTRIBUTION FORMAT** SEQUENCE NAME: INCOME STATEMENT ANALYSIS **FORMAT** EXCEL HTML WAP HTML

FIG. 15R

	PRIORITY	ADD				
	FREQ	IMMEDIATE ▼		VIEW		
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CHEDULE	USER] sı [VARIANC		
S	SEQUENCE NAME	INCOME STAT'T ANALYSIS ▼	SELECT SEQUENCE TO VIEW	COST CENTER SCORING - PTD VARIANCE		
HOME	SEQUENCES AVAILABLE	ADMIN	SYS SETTINGS USERS	LOGS APPL SETTINGS	MEDIA SETT'S	

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	!		WEEKLY MONTHLY		

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ADD SEQUENCE TO SCHEDULE SELECT THE DAYS YOU WISH THE SEQUENCE TO RUN
□SUNDAY □ MONDAY □ TUESDAY □ WED □ THURS □ FRIDAY □ SATURDAY
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8 ▼ : 30 ▼ PM ▼
VEXT START DATE
2000 ▼ DEC ▼ 15 ▼
SUBMIT

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3, Inventors: Systems And Syst

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SELECT SOURCE INFORMATION	SCHEDULE ENTRY
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	DV PART
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Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 41 of 103 SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE

SELECT SOURCE INFORMATION	SCHEDULE ENTRY
SEQUENCE: INCOME	E STATEMENT ANALYSIS
STEP: 1	
QUERY: NEW QUERY	Y.
SOURCE NAME	PART
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	CONTINUE

Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 42 of 103 SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE

FILTER VALUES FOR QUERY SEQUENCE: INCOME STATEMENT ANALYSIS SCHEDULE: INCOME STATEMENT ANALYSIS SEQUENCE STEP: 1 NEW QUERY	FILTER VAL STATEMENT ANALY STATEMENT ANALY	UES I 'SIS SIS F	FILTER VALUES FOR QUERY IENT ANALYSIS ENT ANALYSIS FOR DECEMBER 2000	
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			CORPORATE 1997	▼ MOD DEL
				▲ ADD
PERIOD_D	PERIOD	=	DEC-2000	▲ MOD
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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE STATEMENT OF THE STATEME

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USER	ACCESS	FORMAT	ST	CS RI	CS RESULT TAG	3 RESI	RESULT VALUE	OPT
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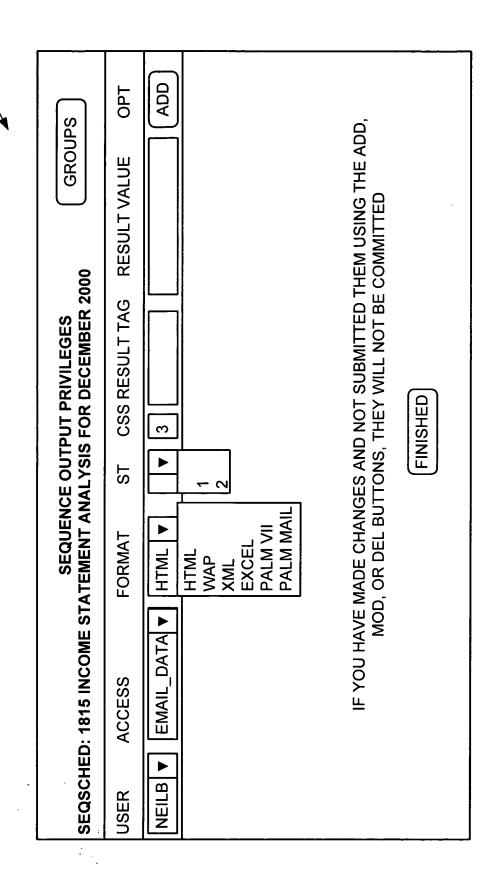
Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, pp. 1716-7391, 17

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	EMAIL_DATA EMAIL_URL WEB DESK_ALERT							
	IF YOU HAVE MOI	IF YOU HAVE MADE CHANGES AND NOT SUBMITTED THEM USING THE ADD, MOD, OR DEL BUTTONS, THEY WILL NOT BE COMMITTED	ES AND TONS,	NOT THEY	SUBMITTE	THEM USI SE COMMIT	ING THE ADI TED	Ó
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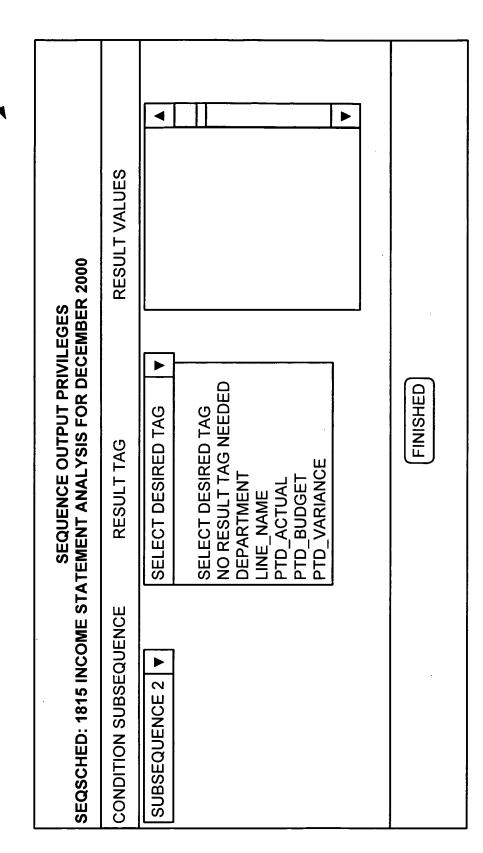
FIG. 15Z

1554



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FIG. 15AA



Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 47 of 103

FIG. 15BB

815 INCOME	SEQUENCE OUTPUT PRIVILEGES STATEMENT ANALYSIS FOR DECEMBER 2000 SELECT SELECT
	√NAL>
<pre><val></val></pre>	
H.	FINISHED

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, 1603) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROFILE STORY AND METHODS FOR DEFINING EXECUTABLE STORY AND METHODS FOR DEFINING EXECUTABLE

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE FIGURICES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 49 of 103

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, pp. 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, pp. 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, pp. 121 S.W. Salmon Street, Oregon 972

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 51 of 103

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE (503) 226-7391, Inventors: SCHEURICH (503) 226-7391,

TEXT EMAILER SMTP EMAIL DIR. (125) 1602 1608 1626 (116)PUBLISH PAGE (87) PALETTE AND CANVAS FOR SEQUENCE (100) {PART QUANTITY SHORTAGES] SAVE RESULTS ADV. FILTER 1622 RESULTS (2) RESULTS SAVE (108)SAVE (65)(72)1624 QUERY QUERY QUERY (26)(52)(33)QUERY (152)PUBLISHE RESULTS CLEAR STORED **PAGES** CLEAR (21) SCHEDULER (11) **CLEAR PUBLISHED PAGES CLEAR STORED RESULTS** 1610 SMTP EMAIL DIRECTIVE **CUSTOM DIRECTIVES** ADVANCED FILTER QUERY DIRECTIVE **EMAIL RESULTS** SAVE RESULTS **PUBLISH PAGE TEXT EMAILER** DISTRIBUTION **TOPX FILTER** FIG. 16A SCHEDULER **DIRECTIVES** APPENDER **ANALYSIS** MISC QUERY 1604

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 53 of 103

IG. 16B

SEQUENCE PROPERTIES	TIES			×
SEQUENCE NAME: DESCRIPTION: NOTES:	ME:	PART QUANTITY SHORTAGES FINDS PART QUANTITY SHORTAGES SAVE THIS ONE	S RTAGES CANCEL	
SEQUENCE AUTHOR SEQUENCE STATUS	THOR: TUS:	AUTHOR1 STATUS1	ADD VARIABIE	a a
GLOBAL VARIABLES:	BLES:			
CAPTION: VALUE:	CONNE	CONNECT STRING JDBC:ORACLE.THIN@123.245.23.1:1521:CONNECT30	NAME: CONNECT STRING 21:CONNECT30	
CAPTION: VALUE:	DATABAS RRIC1234	DATABASE USER NAME RRIC1234	NAME: USER_NAME	
CAPTION: VALUE:	DATABASE SEQUENCE	DATABASE PASSWORD SEQUENCE	NAME: USER_PWD	
CAPTION: VALUE:	OWNEF QRY_A	OWNERNAME QRY_ANALYSIS	NAME: OWNERNAME	
CAPTION: VALUE:	CURRE (1997-0	CURRENT PERIOD (1997-09) SEP-97	NAME: CURPERIOD	

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Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3, SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SO3,

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 55 of 103

1660 ID: 108 DIRECTIVE NAME: (ADFILTER) ADVANCED FILTER CANCE PARAM NAME (FILTER_EXP) FILTER EXPRESSION INPUT INPUT #REQUIRED_QUANTITY# >200 DB3(52) RESULT DATA INPUT 엉 **DIRECTIVE PROPERTIES** ACTIVITY

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCESS INFORMATION FROM A DATA COLLECTION, Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 56 of 103

SUM4 78260 178828 390000 3510 SUM3 -43092 48750 -244800 240000 -1440 -4800 **COST CENTER ANALYSIS** 244800 ш Ω 48750 7 2 3 **CLEANING AND MAIN** ACCOMMODATION ACCOUNT DESC **ADVERTISING CAR RENTAI** BAD DEBT AIRFARE ⋖ BROWSER

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS CR. DEFINING EXECUTABLE SEQUENCES TO PROCE FORMATION FROM A DATA COLLECTI Specification No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 57 of 103

FIG. 18

1801

<DF DIRECTIVE DEFINITION DIRECTIVE ID="DB2" DIRECTIVE NAME="DATA</p> DIRECTIVE" THREADING EFFECT="SPLIT" DIRECTIVE DESC="SQL DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070"/> <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SQL" PARAM DATA TYPE="STRING" PARAM NAME="SQL"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="COLUMN TO SPLIT"</p> PARAM DATA TYPE="STRING" PARAM NAME="SPLIT COLUMN"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="CONNECTION</p> STRING" PARAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER</p> NAME" PARAM DATA TYPE="STRING" PARAM NAME="USERNAME"/> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE PASSWORD" PARAM DATA TYPE="STRING" PARAM NAME="PWD"/> </IN PARAMETERS> **<OUT PARAMETERS>** <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA" PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET"/>

<PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT</p>

PARAM DATA TYPE="STRING" PARAM NAME="SPLITVALUE"/>

<PARAMETER PARAM TYPE="OUT" PARAM CAPTION="SPLIT VALUE"

METADATA" PARAM DATA TYPE="STRING"

PARAM NAME="RESULTMETADATA"/>

FIG. 19A

</IN PARAMETERS>

1901

- < DF DIRECTIVE DEFINITION LIST> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="SB1" DIRECTIVE NAME="SCHEDULER" DIRECTIVE CATEGORY="DPA-MISC" THREADING EFFECT="SPLIT" DIRECTIVE DESC="SCHEDULE DIRECTIVE" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"> - <!-- CAN ADD A TYPE OR ICON NAME --> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="FREQUENCY"</p> PARAM DATA TYPE="STRING" PARAM NAME="FREQUENCY" /> </IN PARAMETERS> <OUT PARAMETERS /> <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE ID="DB2" DIRECTIVE NAME="DATA DIRECTIVE" THREADING EFFECT="SPLIT" DIRECTIVE DESC="SQL DATADIRECTIVE THAT SPLITS RESULTS ON GIVEN COLUMN" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SQL" PARAM DATA TYPE="STRING" PARAM NAME="SQL" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="COLUMN TO SPLIT" PARAM DATA TYPE="STRING" PARAM NAME="SPLIT COLUMN" /> <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="CONNECTION STRING"</p> PARAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="USERNAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE PASSWORD"</p> PARAM DATA TYPE="STRING" PARAM NAME="PWD" />

N

J

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCE IFORMATION FROM A DATA COLLECTI Explication No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 59 of 103

FIG. 19B

1902

- <OUT PARAMETERS>

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="SPLIT VALUE"
PARAM_DATA_TYPE="STRING" PARAM_NAME="SPLITVALUE" />
 </OUT_PARAMETERS>

</DF DIRECTIVE DEFINITION>

- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="AB1" DIRECTIVE_NAME="TOPX FILTER" THREADING_EFFECT="STANDARD" DIRECTIVE_DESC="FILTER OUT TOP X ROWS FROM RESULTSET" DIRECTIVE_VENDOR="DPA"
 DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC">
 <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
 PORT="9070" />
- <IN_PARAMETERS>

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="COLUMN POSITION FOR TOPX" PARAM_DATA_TYPE="STRING" PARAM_NAME="TOPX_COLUMN" />
 </IN_PARAMETERS>

- <OUT PARAMETERS>

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSET" />
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
 </OUT_PARAMETERS>

</DF DIRECTIVE DEFINITION>

- <IN PARAMETERS>

FIG. 19C

_1903

- <OUT_PARAMETERS>

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT DATA"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" />

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULT METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTMETADATA" />
</OUT PARAMETERS>

</DF DIRECTIVE DEFINITION>

- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="MB1" DIRECTIVE_NAME="EMAIL RESULTS" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""
 DIRECTIVE_DESC="SIMPLE EMAIL DIRECTIVE" DIRECTIVE_VENDOR="DPA"
 DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC">
 <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
 PORT="9070" />
- <IN PARAMETERS>

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL ADDRESS LIST"
PARAM DATA TYPE="STRING" PARAM NAME="MAILADR" />

-DADAMETED DADAM TYDE-"INI" DADAM CADTION-"SLID IECT LII

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SUBJECT LINE"</pre>

PARAM_DATA_TYPE="STRING" PARAM_NAME="SUBJECT" />

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="MESSAGE DATA"</pre>

PARAM_DATA_TYPE="STRING" PARAM_NAME="MESSAGE" />

</IN PARAMETERS>

<OUT PARAMETERS />

</DF DIRECTIVE DEFINITION>

- <DF DIRECTIVE DEFINITION DIRECTIVE ID="CRB1"

DIRECTIVE NAME="CLEAR STORED RESULTS"

THREADING_EFFECT="STANDARD" DIRECTIVE TYPE=""

DIRECTIVE_DESC="REMOVE PREVIOUS RESULT SETS FROM REPOSITORY"
DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1"

DIRECTIVE CATEGORY="DPA-MISC">

<DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="OWNER ID"</p>

PARAM DATA TYPE="STRING" PARAM NAME="OWNERID" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTNAME"</pre>

PARAM DATA TYPE="STRING" PARAM NAME="RESULTNAME" />

</IN PARAMETERS>

<OUT PARAMETERS />

</DF DIRECTIVE DEFINITION>

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCE FORMATION FROM A DATA COLLECTI Explication No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 61 of 103

FIG. 19D

1904

- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="CRC1" DIRECTIVE_NAME="CLEAR PUBLISHED PAGES" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""DIRECTIVE_DESC="REMOVE PREVIOUS PUBLISHED PAGES FROM REPOSITORY" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1" DIRECTIVE_CATEGORY="DPA-MISC">

<DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="OWNERID"</pre>

PARAM DATA TYPE="STRING" PARAM NAME="OWNERID" />

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="PAGE NAME"</pre>

PARAM DATA TYPE="STRING" PARAM_NAME="PAGENAME" />

</IN PARAMETERS>

<OUT PARAMETERS />

</DF DIRECTIVE DEFINITION>

- <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="SR1" DIRECTIVE_NAME="SAVE RESULTS" THREADING_EFFECT="STANDARD" DIRECTIVE_TYPE=""DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY"DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"DIRECTIVE_CATEGORY="DPA-MISC">

<DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET OWNER"
PARAM DATA TYPE="STRING" PARAM NAME="OWNER" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULT SET"

PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" />

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET METADATA"</pre>

PARAM DATA TYPE="STRING" PARAM_NAME="RESULTMETADATA" />

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULT SET NAME"

PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTNAME" />

</IN PARAMETERS>

- <OUT PARAMETERS>

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULTSET ID"
PARAM DATA TYPE="STRING" PARAM NAME="RESULTSETID" />

</OUT PARAMETERS>

</DF DIRECTIVE DEFINITION>

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1905

- <DF DIRECTIVE DEFINITION DIRECTIVE ID="CR2" DIRECTIVE NAME="PUBLISH PAGE" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="PUBLISHES PAGE & GRANTS SECURITY" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="GRANT SECURITY LIST"</p> PARAM DATA TYPE="STRING" PARAM NAME="SECDOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="METADATA FOR SECDOC"</p> PARAM DATA TYPE="STRING" PARAM NAME="SECMETA" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="GRANT SECURITY LIST" PARAM DATA TYPE="STRING" PARAM NAME="SECCOLNAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE OWNER"</p> PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> <PARAMETER PARAM_TYPE="IN" PARAM CAPTION="PAGE NAME"</pre> PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE SLICE NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGESLICENAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE DEFINITION"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGEDEFN" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P1" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P2" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P3" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P4" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="IN RESULTS KEY"</p> PARAM DATA TYPE="STRING" PARAM NAME="P5" /> <parameter param type="in" param caption="in results key"</p> PARAM DATA TYPE="STRING" PARAM NAME="P6" /> </IN PARAMETERS>

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FIG. 19F

1906

- <OUT PARAMETERS>

<PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE ID"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGEID" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE OWNER"</p> PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE NAME" PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="PAGE SLICE NAME" PARAM DATA TYPE="STRING" PARAM NAME="PAGESLICENAME" /> </OUT PARAMETERS>

</DF DIRECTIVE DEFINITION>

- <DF DIRECTIVE DEFINITION DIRECTIVE ID="DB3" DIRECTIVE NAME="DATA" DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" />
- <IN PARAMETERS>

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="SQL"</p>

PARAM DATA TYPE="PARAMITERIZED SQL STRING" PARAM NAME="SQL" /> <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="CONNECTION STRING"</p> PARAM DATA TYPE="STRING" PARAM NAME="CONNECTION STRING" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="DATABASE USER NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="USERNAME" /> <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="DATABASE PASSWORD" PARAM DATA TYPE="STRING" PARAM NAME="PWD" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="P1"</p>

PARAM DATA TYPE="STRING" PARAM NAME="P1" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="P2"

PARAM DATA TYPE="STRING" PARAM NAME="P2" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="P3"</p>

PARAM DATA TYPE="STRING" PARAM NAME="P3" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="P4"

PARAM DATA TYPE="STRING" PARAM NAME="P4" />

<PARAMETER PARAM TYPE="IN" PARAM CAPTION="P5"</p>

PARAM_DATA_TYPE="STRING" PARAM NAME="P5" /> </IN PARAMETERS>

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FIG. 19G

</IN PARAMETERS>

1907

- <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT DATA"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTSET" /> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="RESULT METADATA"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTMETADATA" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION> - <DF DIRECTIVE DEFINITION DIRECTIVE_ID="MB2" DIRECTIVE_NAME="SMTP EMAIL DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE TYPE="" DIRECTIVE DESC="SEND PUBLISHED PAGES" DIRECTIVE VENDOR="DPA" DIRECTIVE VERSION="1" DIRECTIVE CATEGORY="DPA-MISC"> <DEPLOYMENT SERVICE="DPA DIRECTIVE MGR" MACHINE="SKUNKNT4"</p> PORT="9070" /> - <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESSES"</p> PARAM DATA TYPE="STRING" PARAM NAME="ADDRDOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="METADATA FOR</p> ADDRDOC" PARAM DATA TYPE="STRING" PARAM NAME="ADDRMETA" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL COLUMN NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="ADDRCOLNAME" /> <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="EMAIL COLUMN NAME"</p> PARAM DATA TYPE="STRING" PARAM NAME="IDCOLNAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SUBJECT"</p> PARAM DATA TYPE="STRING" PARAM NAME="SUBJECT" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE OWNER"</p> PARAM DATA TYPE="STRING" PARAM NAME="OWNER" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE NAME" PARAM DATA TYPE="STRING" PARAM NAME="PAGENAME" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="PAGE INSTANCE"</p> PARAM DATA TYPE="STRING" PARAM NAME="PAGEINST" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="MAIL FORMAT"</p> PARAM DATA TYPE="STRING" PARAM NAME="FORMAT" />

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="SEND FROM MAIL
ADDRESS" PARAM DATA TYPE="STRING" PARAM NAME="SENDFROM" />

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FIG. 19H

__1908

- <OUT_PARAMETERS>
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="ERROR MESSAGES"
PARAM_DATA_TYPE="STRING" PARAM_NAME="ERROR_MSG" />
 </OUT_PARAMETERS>
 </DF_DIRECTIVE_DEFINITION>
 - <DF_DIRECTIVE_DEFINITION DIRECTIVE_ID="ABFILTER"
DIRECTIVE_NAME="ADVANCED FILTER" THREADING_EFFECT="STANDARD"</p>

DIRECTIVE_TYPE="" DIRECTIVE_DESC="FILTER RESULTS"
DIRECTIVE_VENDOR="DPA" DIRECTIVE_VERSION="1"
DIRECTIVE CATEGORY="DPA-MISC">

<DEPLOYMENT SERVICE="DPA_DIRECTIVE_MGR" MACHINE="SKUNKNT4"
PORT="9070" />

- <IN PARAMETERS>

<PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="FILTER EXPRESSION"
PARAM_DATA_TYPE="STRING" PARAM_NAME="FILTER_EXP" />
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULTS METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="METADOC" />
 <PARAMETER PARAM_TYPE="IN" PARAM_CAPTION="RESULTS"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSDOC" />
 </IN PARAMETERS>

- <OUT PARAMETERS>

<PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULTS METADATA"
PARAM_DATA_TYPE="STRING" PARAM_NAME="METADOC" />
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="RESULTS"
PARAM_DATA_TYPE="STRING" PARAM_NAME="RESULTSDOC" />
 <PARAMETER PARAM_TYPE="OUT" PARAM_CAPTION="ROW COUNT"
PARAM_DATA_TYPE="STRING" PARAM_NAME="ROWCOUNT" />
 </OUT_PARAMETERS>
 </DF DIRECTIVE DEFINITION>

FIG. 19I

</DF DIRECTIVE DEFINITION LIST>

1909

- <IN PARAMETERS> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SUBJECT EXPRESSION"</p> PARAM DATA TYPE="STRING" PARAM NAME="SUBJECT EXP" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="MESSAGE EXPRESSION" PARAM DATA TYPE="STRING" PARAM NAME="MESSAGE EXP" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="EMAIL ADDRESSES"</p> PARAM DATA TYPE="STRING" PARAM NAME="EMAIL ADDRESSES" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="SEND FROM ADDRESS" PARAM DATA TYPE="STRING" PARAM NAME="FROM ADDRESS" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS METADATA" PARAM DATA TYPE="STRING" PARAM NAME="METADOC" /> <PARAMETER PARAM TYPE="IN" PARAM CAPTION="RESULTS"</p> PARAM DATA TYPE="STRING" PARAM NAME="RESULTSDOC" /> </IN PARAMETERS> - <OUT PARAMETERS> <PARAMETER PARAM TYPE="OUT" PARAM CAPTION="ERROR MESSAGES" PARAM DATA TYPE="STRING" PARAM NAME="ERROR" /> </OUT PARAMETERS> </DF DIRECTIVE DEFINITION>

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- <RESULTS DOC>
- <DP QUERY DEF VERSION="1">
 <DPA IDENTIFIERS DATA_SET="NW" WH OWNER NAME="RROC" />
 <HINTS />
- <COLUMN DEFS>
 <COLUMN DEF COLUMN_SORT_ATTRIBUTE="NONE"
COLUMN TEXT="VENDOR NAME" TABLE ALIAS="VENDOR D"
COLUMN NAME="VENDOR NAME" COLUMN ALIAS="VENDOR NAME"
COLUMN SORT ORDER="1" COLUMN POSITION="1"
COLUMN TYPE="GROUP BY" />
 <COLUMN DEF COLUMN SORT ATTRIBUTE="NONE"
COLUMN TEXT="PERIOD KEY" TABLE ALIAS="AP INV DETAIL F"
COLUMN NAME="PERIOD KEY" COLUMN ALIAS="PERIOD KEY"
COLUMN SORT ORDER="2" COLUMN POSITION="2"
COLUMN TYPE="GROUP BY" />
 <COLUMN DEF COLUMN SORT ATTRIBUTE="DESC"
COLUMN TEXT="SUM(AP INV DETAIL F.INVOICE LINE AMOUNT)"
TABLE ALIAS="AP INV DETAIL F"
COLUMN NAME="INVOICE LINE AMOUNT"
COLUMN ALIAS="SUM INVOICE LINE AMOUNT"
COLUMN SORT ORDER="3" COLUMN POSITION="3"
COLUMN TYPE="AGGREGATE" />
 </COLUMN DEFS>
- <TABLE DEFS>
<TABLE DEF TABLE ALIAS="AP INV DETAIL F"
TABLE NAME="AP INV DETAIL F" />
 <TABLE DEF TABLE ALIAS="VENDOR D" TABLE NAME="VENDOR D" /
 </TABLE DEFS>
- <DETAIL FILTERS>
- <FILTER FILTER TYPE="VALUE" COLUMN TEXT="VENDOR TYPE"
TABLE ALIAS="VENDOR D" FILTER PREC OPER="AND"
FILTER OPERATOR="=">
 <FILTER VALUE VALUE DATA TYPE="STRING">EMPLOYEE/
FILTER VALUE>
 </FILTER>
```

FIG. 20B

2002

- <FILTER FILTER TYPE="VALUE" COLUMN TEXT="COMPANY KEY" TABLE ALIAS="AP_INV DETAIL F" FILTER PREC OPER="AND" FILTER OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">01</FILTER VALUE> </FILTER> </DETAIL FILTERS> - <AGGREGATE FILTERS> - <FILTER FILTER TYPE="VALUE"</p> COLUMN TEXT="SUM(INVOICE LINE AMOUNT)" TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND" FILTER_OPERATOR=">"> <FILTER VALUE VALUE DATA TYPE="NUMBER">0</FILTER VALUE> </FILTER> </AGGREGATE FILTERS> </DP QUERY DEF> <DPA QUERY SERVER INFO SERVICE="DPA QUERY SERVER"</p> MACHINE="EXH 2K" PORT="8069" WAREHOUSE SERVER="HD.DPAPPLICATIONS.COM" WAREHOUSE_DBNAME="DEMO30" WAREHOUSE OWNER="RROC">FOODADDY</ DPA QUERY SERVER INFO> - <DP DS METADATA> <DP COLUMN COLUMN NAME="VENDOR NAME"</p> COLUMN DATA TYPE="VARCHAR2" COLUMN DS ALIAS="C1" COLUMN TYPE="GROUP BY" COLUMN SORT ATTRIBUTE="NONE" COLUMN SOURCE ALIAS="VENDOR NAME" COLUMN LABEL="VENDOR NAME" COLUMN DESC="" COLUMN IS CURRENCY="N" /> <DP COLUMN COLUMN NAME="PERIOD KEY"</p> COLUMN DATA TYPE="VARCHAR2" COLUMN DS ALIAS="C2" COLUMN_TYPE="GROUP BY" COLUMN SORT ATTRIBUTE="NONE" COLUMN SOURCE ALIAS="PERIOD KEY" COLUMN LABEL="PERIOD KEY" COLUMN DESC="" COLUMN IS CURRENCY="N" /> <DP COLUMN COLUMN NAME="SUM INVOICE LINE AMOUNT"</p> COLUMN DATA TYPE="NUMBER" COLUMN DS ALIAS="C3" COLUMN TYPE="AGGREGATE" COLUMN SORT ATTRIBUTE="DESC" COLUMN SOURCE ALIAS="SUM INVOICE LINE AMOUNT" COLUMN LABEL="INVOICE LINE AMOUNT" COLUMN DESC="" COLUMN IS CURRENCY="Y" />

FIG. 20C

</DP_DS_METADATA> - <DP DS> - <R> <C1>JAMIE FROST</C1> <C2>DEC-97</C2> <C3>28159</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>JAN-98</C2> <C3>15114.76</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>FEB-98</C2> <C3>4417.86</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>APR-98</C2> <C3>3439.10</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>DEC-97</C2> <C3>3263</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>NOV-97</C2> <C3>2907.85</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>FEB-98</C2>

<C3>2799.31</C3>

</R>

2004

FIG. 20D

- <R> <C1>KERRY JONES</C1> <C2>MAY-98</C2> <C3>2698.64</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>APR-98</C2> <C3>2657.20</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>MAY-98</C2> <C3>2549.68</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>MAR-98</C2> <C3>2511.98</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>MAR-98</C2> <C3>2459.87</C3> </R> - <R> <C1>JAMIE FROST</C1> <C2>JUN-98</C2> <C3>2219.90</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>JUN-98</C2> <C3>2182.29</C3> </R> - <R> <C1>KERRY JONES</C1> <C2>JAN-98</C2>

<C3>1516</C3>

</R>

- <R>

<C1>BLACK, CHRIS</C1>

<C2>NOV-97</C2>

<C3>651.06</C3>

</R>

</DP_DS>

</RESULTS_DOC>

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FIG. 21A

2101

- <DF WORKFLOW VERSION="1">
- <DF_WORKFLOW_HEADER DF_EDITOR_MAX_ID="172" FLOW_NAME="QTY
 ANALYSIS" FLOW_DESCRIPTION="QTY ANALYSIS FLOW" FLOW_STATUS="FLOW
 STATUS" FLOW NOTES="" FLOW AUTHOR="FLOW AUTHOR" />
- <DF WORKFLOW PARAMETERS>
- <PARAMETER NODE_ID="13" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="CONNECT STRING" PARAM_NAME="CONNECT_STRING"
 PARAM_TYPE="OUT">

<PARAM SOURCE

PARAM_TYPE="VALUE">JDBC:ORACLE:THIN:@172.16.1.34:1521:DEMO30</P>

- </PARAMETER>
- <PARAMETER NODE_ID="14" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USER_NAME"
 PARAM_TYPE="OUT">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">RROC609</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="15" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="USER_PWD"
 PARAM_TYPE="OUT">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">DPA</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="16" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="OWNERNAME" PARAM_NAME="OWNERNAME"
 PARAM_TYPE="OUT">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">QTY_ANALYSIS</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="17" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="CURRENT PERIOD" PARAM_NAME="CURRPERIOD"
 PARAM_TYPE="OUT">
- <PARAM_SOURCE PARAM_TYPE="VALUE">(1997-09) SEP-97</PARAM_SOURCE>
 - </PARAMETER>
- </DF WORKFLOW PARAMETERS>
- <DF WORKFLOW ACTIVITIES>
- <ACTIVITY NODE ID="11">
- <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p>

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

DIRECTIVE NAME="SCHEDULER" THREADING EFFECT="SPLIT"

DIRECTIVE_ID="SB1" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="SCHEDULE DIRECTIVE" />

FIG. 21B

2102

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="12" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="FREQUENCY" PARAM_NAME="FREQUENCY" PARAM_TYPE="IN">
 - <PARAM SOURCE PARAM_TYPE="VALUE">0</PARAM SOURCE>
 - </PARAMETER>
 - </ACTIVITY IN PARAMETERS>
 - <ACTIVITY OUT PARAMETERS />
 - </ACTIVITY>
- <ACTIVITY NODE ID="18">
 - <activity header activity notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<activity implementation directive vendor="dpa"

DIRECTIVE NAME="CLEAR STORED RESULTS"

THREADING_EFFECT="STANDARD" DIRECTIVE_ID="CRB1" DIRECTIVE_TYPE=""
DIRECTIVE_VERSION="1" DIRECTIVE_DESC="REMOVE PREVIOUS RESULT SETS
FROM REPOSITORY" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="19" PARAM DATA TYPE="STRING"

</PARAMETER>

- <PARAMETER NODE_ID="20" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="RESULTNAME" PARAM_NAME="RESULTNAME"
PARAM TYPE="IN">

- <PARAM SOURCE PARAM TYPE="VALUE">*</PARAM SOURCE>
- </PARAMETER>
- </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS />
- </ACTIVITY>
- <ACTIVITY NODE ID="21">
 - <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p>

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY_IMPLEMENTATION DIRECTIVE_VENDOR="DPA"</pre>

DIRECTIVE NAME="CLEAR PUBLISHED PAGES"

THREADING_EFFECT="STANDARD" DIRECTIVE_ID="CRC1" DIRECTIVE_TYPE=""
DIRECTIVE_VERSION="1" DIRECTIVE_DESC="REMOVE PREVIOUS PUBLISHED
PAGES FROM REPOSITORY" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE ID="22" PARAM DATA TYPE="STRING"

PARAM_CAPTION="OWNERID" PARAM_NAME="OWNERID" PARAM_TYPE="IN">
<PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
</PARAMETER>

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FIG. 21C

PARAM SOURCE> </PARAMETER>

2103 - <PARAMETER NODE ID="23" PARAM DATA TYPE="STRING" PARAM CAPTION="PAGE NAME" PARAM NAME="PAGENAME" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">* </PARAMETER> </ACTIVITY IN PARAMETERS> <activity out parameters /> </ACTIVITY> - <ACTIVITY NODE ID="26"> <activity header activity notes="activity notes" ACTIVITY DESCRIPTION="DETAIL QUERY" /> <activity implementation directive vendor="dpa" DIRECTIVE NAME="DATA DIRECTIVE" THREADING EFFECT="STANDARD" DIRECTIVE ID="DB3" DIRECTIVE VERSION="1" DIRECTIVE DESC="RETRIEVE DATA AND ASSEMBLE INTO RESULT SET" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE ID="27" PARAM DATA TYPE="PARAMITERIZED SQL STRING" PARAM CAPTION="SQL" PARAM NAME="SQL" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">SELECT NW COMPONENT ITEM D.COMPONENT ITEM DESC COMPONENT ITEM DESC, SUM(NW DISC SHORTAGE F.QUANTITY ISSUED) QUANTITY ISSUED, SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND) QUANTITY ON HAND, SUM(NW DISC SHORTAGE F.QUANTITY SHORT) QUANTITY SHORT, SUM(NW DISC SHORTAGE F.REQUIRED QUANTITY) REQUIRED QUANTITY FROM NW COMPONENT ITEM D 0 NW COMPONENT ITEM D,NW DISC SHORTAGE F 0 NW DISC SHORTAGE F,NW ORG PERIOD D 0 NW ORG PERIOD D,NW WIP ENTITY D 0 NW WIP ENTITY D WHERE NW DISC SHORTAGE F.COMPONENT_ITEM_KEY = NW COMPONENT ITEM D.COMPONENT ITEM KEY AND NW DISC SHORTAGE F.ORG PERIOD KEY = NW ORG PERIOD D.ORG PERIOD KEY AND NW DISC SHORTAGE F.WIP ENTITY KEY =NW WIP ENTITY D.WIP ENTITY KEY AND NW ORG PERIOD D.ORG PERIOD = '#P1#' GROUP BY NW COMPONENT ITEM D.COMPONENT ITEM DESC HAVING SUM(NW DISC SHORTAGE F.REQUIRED QUANTITY) > 0 ORDER BY REQUIRED QUANTITY DESC, COMPONENT ITEM DESC, REQUIRED_QUANTITY, QUANTITY ISSUED, QUANTITY SHORT, QUANTITY ON HAND</

FIG. 21D

1 1 3

- <PARAMETER NODE_ID="28" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="CONNECTION STRING"
 PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="29" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="30" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="31" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="32" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="33" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="34" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P4" PARAM_NAME="P4" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="35" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P5" PARAM_NAME="P5" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
 </ACTIVITY IN PARAMETERS>

FIG. 21E

2105

- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="36" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET"

PARAM TYPE="OUT">

- <PARAM_SOURCE />
- </PARAMETER>
- <PARAMETER NODE_ID="37" PARAM_DATA_TYPE="STRING"

PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA" PARAM_TYPE="OUT">

- <PARAM SOURCE />
- </PARAMETER>
- </ACTIVITY_OUT_PARAMETERS>
- </ACTIVITY>
- <ACTIVITY NODE ID="39">
- <activity_header activity_notes="activity notes"

ACTIVITY DESCRIPTION="TREND QUERY" />

<ACTIVITY IMPLEMENTATION DIRECTIVE_VENDOR="DPA"</pre>

DIRECTIVE_NAME="DATA DIRECTIVE" THREADING_EFFECT="STANDARD"
DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE
DATA AND ASSEMBLE INTO RESULT SET" />

- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="40" PARAM_DATA_TYPE="PARAMITERIZED SQL

STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="VALUE"> SELECT

NW ORG PERIOD D.ORG PERIOD

PERIOD NAME, SUM(NW DISC SHORTAGE F.QUANTITY ISSUED)

QUANTITY ISSUED, SUM(NW DISC SHORTAGE F.QUANTITY ON HAND)

QUANTITY ON HAND, SUM(NW DISC SHORTAGE F.QUANTITY SHORT)

QUANTITY SHORT, SUM(NW DISC SHORTAGE F.REQUIRED QUANTITY)

REQUIRED QUANTITY FROM NW DISC SHORTAGE F 0

NW_DISC_SHORTAGE_F, NW_ORG_PERIOD_D_0 NW_ORG_PERIOD_D WHERE NW DISC SHORTAGE F.ORG PERIOD KEY =

NW_ORG_PERIOD_D.ORG_PERIOD_KEY GROUP BY

NW_ORG_PERIOD_D.ORG_PERIOD ORDER BY PERIOD_NAME DESC</P>

- </PARAMETER>
- <PARAMETER NODE ID="41" PARAM DATA TYPE="STRING"</p>

PARAM CAPTION="CONNECTION STRING"

PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>

</PARAMETER>

FIG. 21F

- <PARAMETER NODE_ID="42" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="43" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="44" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="45" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="46" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="47" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P4" PARAM_NAME="P4" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="48" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P5" PARAM_NAME="P5" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
 - </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="49" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET"
 PARAM_TYPE="OUT">
 - <PARAM_SOURCE />
 - </PARAMETER>
- <PARAMETER NODE_ID="50" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY_OUT_PARAMETERS>
 - </ACTIVITY>

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Survice et al., Title: SYSTEMS AND METHODS DEFINING EXECUTABLE SEQUENCES TO PROCE FORMATION FROM A DATA COLLECTION Population No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 78 of 103

FIG. 21G

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- <activity Node_ID="52">
 <activity_Header activity_Notes="activity notes"
 Activity_Description="summary query" />
 <activity_Implementation directive_Vendor="dpa"
 DIRECTIVE_NAME="data directive" threading_effect="standard"
 DIRECTIVE_ID="db3" directive_version="1" directive_desc="retrievedata and assemble into result set" />
 - <activity in parameters>

- <PARAMETER NODE_ID="53" PARAM_DATA_TYPE="PARAMITERIZED SQL STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT

NW COMPONENT ITEM D.COMPONENT ITEM DESC

COMPONENT_ITEM_DESC,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ISSUED)

QUANTITY_ISSUED,SUM(NW_DISC_SHORTAGE_F.QUANTITY_ON_HAND)

QUANTITY_ON_HAND,SUM(NW_DISC_SHORTAGE_F.QUANTITY_SHORT)

QUANTITY_SHORT,SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY)

REQUIRED_QUANTITY FROM NW_COMPONENT_ITEM_D_0

NW_COMPONENT_ITEM_D,NW_DISC_SHORTAGE_F_0

NW_DISC_SHORTAGE_F,NW_ORG_PERIOD_D_0

NW_ORG_PERIOD_D,NW_WIP_ENTITY_D_0 NW_WIP_ENTITY_D WHERE

NW DISC SHORTAGE F.COMPONENT ITEM KEY =

NW COMPONENT ITEM D.COMPONENT ITEM KEY AND

NW_DISC_SHORTAGE_F.ORG_PERIOD_KEY =

NW_ORG_PERIOD_D.ORG_PERIOD_KEY AND

NW_DISC_SHORTAGE_F.WIP_ENTITY_KEY

=NW_WIP_ENTITY_D.WIP_ENTITY_KEY AND NW_ORG_PERIOD_D.ORG_PERIOD = '#P1#' GROUP BY NW_COMPONENT_ITEM_D.COMPONENT_ITEM_DESC HAVING SUM(NW_DISC_SHORTAGE_F.REQUIRED_QUANTITY) > 0 ORDER BY REQUIRED_QUANTITY DESC, COMPONENT_ITEM_DESC,REQUIRED_QUANTITY, QUANTITY_ISSUED, QUANTITY_SHORT, QUANTITY_ON_HAND</PARAM_SOURCE>

</PARAMETER>

- <PARAMETER NODE_ID="54" PARAM_DATA_TYPE="STRING" PARAM CAPTION="CONNECTION STRING"

PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE> </PARAMETER>

- <PARAMETER NODE ID="55" PARAM DATA TYPE="STRING"

PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME" PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="ID">14</PARAM_SOURCE>

</PARAMETER>

FIG. 21H

- <PARAMETER NODE_ID="56" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">15</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="57" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">17</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="58" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="59" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="60" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P4" PARAM_NAME="P4" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="61" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P5" PARAM_NAME="P5" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
 - </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="62" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT DATA" PARAM_NAME="RESULTSET"
 PARAM_TYPE="OUT">
 - <PARAM_SOURCE />
 - </PARAMETER>
- <PARAMETER NODE_ID="63" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT METADATA" PARAM_NAME="RESULTMETADATA"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY_OUT_PARAMETERS>
 - </ACTIVITY>

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FIG. 21I

- <ACTIVITY NODE_ID="65">

<activity_header activity_notes="activity notes"

ACTIVITY_DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS" DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE DESC="SAVES RESULTS TO REPOSITORY" />

- <ACTIVITY_IN_PARAMETERS>
- <PARAMETER NODE_ID="66" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER"
 PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="67" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">36</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="68" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET METADATA"
 PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">37</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="69" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET NAME" PARAM_NAME="RESULTNAME"
 PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE">DETAIL
- ·</PARAMETER>
- </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="70" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID" PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY OUT PARAMETERS>
 - </ACTIVITY>
- <ACTIVITY NODE ID="72">
- <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p>

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<activity_implementation directive_vendor="dpa"

THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS" DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1"

DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />

FIG. 21J

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- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="73" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="74" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULT SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">49</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="75" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET METADATA"
 PARAM_NAME="RESULTMETADATA" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">50</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="76" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET NAME" PARAM_NAME="RESULTNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">TREND</PARAM_SOURCE>
 </PARAMETER>
 - </ACTIVITY_IN_PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE_ID="77" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULTSET ID" PARAM_NAME="RESULTSETID"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY OUT PARAMETERS>
 - </ACTIVITY>
- <ACTIVITY NODE ID="79">
 - <activity header activity notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY IMPLEMENTATION DIRECTIVE_VENDOR="DPA"</p>

THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SAVE RESULTS" DIRECTIVE_ID="SR1" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="SAVES RESULTS TO REPOSITORY" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="80" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULT SET OWNER" PARAM_NAME="OWNER"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE> </PARAMETER>

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FIG. 21K

PARAM TYPE="IN">

</PARAMETER>

2111 - <PARAMETER NODE_ID="81" PARAM_DATA TYPE="STRING" PARAM CAPTION="RESULT SET" PARAM_NAME="RESULTSET" PARAM_TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">62</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="82" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT SET METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">63</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="83" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT SET NAME" PARAM NAME="RESULTNAME" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">SUMMARY</PARAM SOURCE> </PARAMETER> </ACTIVITY IN PARAMETERS> - <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE_ID="84" PARAM_DATA_TYPE="STRING"</p> PARAM CAPTION="RESULTSET ID" PARAM NAME="RESULTSETID" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="87"> <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p> ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" /> <ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p> THREADING EFFECT="STANDARD" DIRECTIVE NAME="PUBLISH PAGE" DIRECTIVE ID="CR2" DIRECTIVE TYPE="" DIRECTIVE VERSION="1" DIRECTIVE DESC="PUBLISHES PAGE & GRANTS SECURITY" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE ID="88" PARAM DATA TYPE="STRING"</p> PARAM CAPTION="GRANT SECURITY LIST" PARAM NAME="SECDOC" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">162</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="89" PARAM DATA TYPE="STRING"

PARAM CAPTION="METADATA FOR SECDOC" PARAM NAME="SECMETA"

<PARAM SOURCE PARAM TYPE="ID">163</PARAM SOURCE>

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FIG. 21L

- <PARAMETER NODE_ID="90" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="GRANT SECURITY LIST" PARAM_NAME="SECCOLNAME" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">USERNAME</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="91" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">16</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="92" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">STARTPAGE</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="93" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="PAGE SLICE NAME" PARAM_NAME="PAGESLICENAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">FIRST</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="94" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="PAGE DEFINITION" PARAM_NAME="PAGEDEFN"
 PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE"><DP_PAGE_DEF><LAYER LAYER_TYPE="HORIZONTAL" LAYER_BORDER="0" LAYER_PADDING="3" LAYER HEIGHT="100%" LAYER WIDTH="100%"><LAYER

LAYER TYPE="VERTICAL" LAYER PADDING="3" LAYER BORDER="0"

LAYER_HEIGHT="225" LAYER_WIDTH="100%"><LAYER LAYER_TYPE="WIDGET"

LAYER_HEIGHT="100%" LAYER_WIDTH="50%"><WIDGET

WIDGET ID="DP PIE CHART"><PARAMETERS><PARAM

PARAM NAME="TITLE">MY PIE</PARAM><PARAM PARAM_NAME="DSID">#P3#</

PARAM><PARAM PARAM_NAME="VALUECOL">REQUIRED_QUANTITY</

PARAM><PARAM PARAM NAME="LABELCOL">COMPONENT ITEM DESC</

PARAM><PARAM PARAM NAME="FILTERTYPE">TOP</PARAM><PARAM

PARAM NAME="FILTERVAL">10</PARAM></PARAMETERS></WIDGET></

LAYER><LAYER LAYER_TYPE="WIDGET" LAYER_HEIGHT="100%"

LAYER WIDTH="50%"><WIDGET

WIDGET ID="DP BAR CHART2"><PARAMETERS><PARAM

PARAM NAME="TITLE">MY CHART TITLE</PARAM><PARAM

PARAM NAME="DSID">#P2#</PARAM><PARAM

PARAM_NAME="MEASURECOLS">QUANTITY_ON_HAND|QUANTITY_ISSUED|QUA

NTITY SHORT|REQUIRED QUANTITY</PARAM><PARAM

PARAM NAME="XAXISLABELS">ON HANDIISSUEDISHORTIREQUIRED</

PARAM><PARAM PARAM NAME="SERIESCOL">PERIOD NAME</PARAM></

PARAMETERS></WIDGET></LAYER></LAYER

LAYER_TYPE="HORIZONTAL" LAYER BORDER="0" LAYER PADDING="3"

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FIG. 21M

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LAYER_HEIGHT="80%" LAYER_WIDTH="100%"><LAYER LAYER_TYPE="WIDGET" LAYER_HEIGHT="100%" LAYER_WIDTH="100%"><WIDGET WIDGET WIDGET_ID="DP_REPORT_VIEWER"><PARAMETERS><PARAM PARAM_NAME="TITLE">MY TITLE</PARAM> <PARAM PARAM_NAME="DSID">#P1#</PARAM></PARAMETERS></WIDGET></LAYER></LAYER></LAYER></LAYER></PARAM_SOURCE> </PARAMETER>

- <PARAMETER NODE_ID="95" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P1" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="96" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P2" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">77</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="97" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P3" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">84</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="98" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P4" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="99" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P5" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="100" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="IN RESULTS KEY" PARAM_NAME="P6" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">70</PARAM_SOURCE>
 </PARAMETER>
- </ACTIVITY_IN_PARAMETERS>
 <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE ID="101" PARAM DATA TYPE="STRING"
- PARAM_CAPTION="PAGE ID" PARAM_NAME="PAGEID" PARAM_TYPE="OUT"> <PARAM_SOURCE />
 - </PARAMETER>
- <PARAMETER NODE_ID="102" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="PAGE OWNER" PARAM_NAME="OWNER" PARAM_TYPE="OUT"> <PARAM_SOURCE /> </PARAMETER>

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FIG. 21N 2114 - <PARAMETER NODE ID="103" PARAM DATA TYPE="STRING" PARAM CAPTION="PAGE NAME" PARAM NAME="PAGENAME" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> - <PARAMETER NODE ID="104" PARAM DATA TYPE="STRING" PARAM CAPTION="PAGE SLICE NAME" PARAM NAME="PAGESLICENAME" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER> </ACTIVITY OUT PARAMETERS> </ACTIVITY> - <ACTIVITY NODE ID="108"> <ACTIVITY HEADER ACTIVITY NOTES="ACTIVITY NOTES"</p> ACTIVITY DESCRIPTION="OUTOF BOUNDS QTY" /> <activity implementation directive vendor="dpa" THREADING EFFECT="STANDARD" DIRECTIVE NAME="ADVANCED FILTER" DIRECTIVE ID="ABFILTER" DIRECTIVE TYPE="" DIRECTIVE VERSION="1" DIRECTIVE DESC="FILTER RESULTS" /> - <ACTIVITY IN PARAMETERS> - <PARAMETER NODE ID="109" PARAM DATA TYPE="STRING" PARAM CAPTION="FILTER EXPRESSION" PARAM NAME="FILTER EXP" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="VALUE">#REQUIRED QUANTITY# > 200 PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="110" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULTS METADATA" PARAM NAME="METADOC" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">63</PARAM SOURCE> </PARAMETER> - <PARAMETER NODE ID="111" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULTS" PARAM NAME="RESULTSDOC" PARAM TYPE="IN" <PARAM SOURCE PARAM TYPE="ID">62</PARAM SOURCE> </PARAMETER> </ACTIVITY IN PARAMETERS> - <ACTIVITY OUT PARAMETERS> - <PARAMETER NODE ID="112" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULTS METADATA" PARAM NAME="METADOC" PARAM TYPE="OUT"> <PARAM SOURCE /> </PARAMETER>

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FIG. 210

2115

- <PARAMETER NODE_ID="113" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="OUT">

<PARAM SOURCE />

</PARAMETER>

- <PARAMETER NODE_ID="114" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="ROW COUNT" PARAM_NAME="ROWCOUNT" PARAM_TYPE="OUT">

<PARAM SOURCE />

</PARAMETER>

</ACTIVITY OUT PARAMETERS>

</ACTIVITY>

- <ACTIVITY NODE ID="116">

<activity header activity notes="activity notes"

ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />

<ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="TEXT EMAILER" DIRECTIVE_ID="TEXTEMAILER" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE DESC="TEXT EMAILER" />

- <ACTIVITY IN PARAMETERS>

- <PARAMETER NODE_ID="117" PARAM_DATA_TYPE="STRING"</pre>

PARAM_CAPTION="SUBJECT EXPRESSION" PARAM_NAME="SUBJECT_EXP" PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="VALUE">OUT OF BOUNDS QTY CONDITION

</PARAMETER>

- <PARAMETER NODE_ID="118" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="MESSAGE EXPRESSION" PARAM_NAME="MESSAGE_EXP"
PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="VALUE">COMPONENT:

#COMPONENT_ITEM_DESC# REQUIRES #REQUIRED_QUANTITY# ADDITIONAL UNITS</PARAM SOURCE>

</PARAMETER>

- <PARAMETER NODE_ID="119" PARAM_DATA_TYPE="STRING"

PARAM_CAPTION="EMAIL ADDRESSES" PARAM_NAME="EMAIL_ADDRESSES" PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="VALUE">EXH@DPAPPLICATIONS.COM

</PARAMETER>

- <PARAMETER NODE ID="120" PARAM DATA TYPE="STRING"

PARAM_CAPTION="SEND FROM ADDRESS" PARAM_NAME="FROM_ADDRESS" PARAM_TYPE="IN">

<PARAM_SOURCE PARAM_TYPE="VALUE">DF@DPAPPLICATIONS.COM

</PARAMETER>

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FIG. 21P

2116

- <PARAMETER NODE_ID="121" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULTS METADATA" PARAM_NAME="METADOC"
 PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">112</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="122" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="RESULTS" PARAM_NAME="RESULTSDOC" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">113</PARAM_SOURCE>
 - </PARAMETER>
 - </ACTIVITY_IN_PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="123" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="ERROR MESSAGES" PARAM_NAME="ERROR"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY OUT PARAMETERS>
 - </ACTIVITY>
- <ACTIVITY NODE ID="125">
- <activity header activity notes="activity notes"

ACTIVITY DESCRIPTION="EMAIL LINK" />

- <activity_implementation directive_vendor="dpa"
- THREADING_EFFECT="STANDARD" DIRECTIVE_NAME="SMTP EMAIL DIRECTIVE" DIRECTIVE_ID="MB2" DIRECTIVE_TYPE="" DIRECTIVE_VERSION="1" DIRECTIVE DESC="SEND PUBLISHED PAGES" />
- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="126" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="EMAIL ADDRESSES" PARAM_NAME="ADDRDOC"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="ID">162</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="127" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="METADATA FOR ADDRDOC" PARAM_NAME="ADDRMETA"
 PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="ID">163</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="128" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="EMAIL COLUMN NAME" PARAM_NAME="ADDRCOLNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">EMAIL_ADDRESS</PARAM_SOURCE>
 </PARAMETER>

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FIG. 21Q

- <PARAMETER NODE_ID="129" PARAM_DATA_TYPE="STRING"
PARAM_CAPTION="EMAIL COLUMN NAME" PARAM_NAME="IDCOLNAME"
PARAM_TYPE="IN">

- <PARAM_SOURCE PARAM_TYPE="VALUE">USERNAME</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="130" PARAM_DATA_TYPE="STRING"
- PARAM_CAPTION="SUBJECT" PARAM_NAME="SUBJECT" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="VALUE">QTY ANALYSIS UPDATED</
 PARAM_SOURCE>
 - </PARAMETER>
- - </PARAMETER>
- <PARAMETER NODE_ID="132" PARAM_DATA_TYPE="STRING"</p>
 PARAM_CAPTION="PAGE NAME" PARAM_NAME="PAGENAME" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">103

 </PARAMETER>
- <PARAMETER NODE_ID="133" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="PAGE INSTANCE" PARAM_NAME="PAGEINST"
 PARAM_TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="ID">104</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="134" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="MAIL FORMAT" PARAM_NAME="FORMAT" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="VALUE">DYNAM</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="135" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="SEND FROM MAIL ADDRESS" PARAM_NAME="SENDFROM"
 PARAM TYPE="IN">
- <PARAM_SOURCE PARAM_TYPE="VALUE">DF@DPAPPLICATIONS.COM</PARAM_SOURCE>
 - </PARAMETER>
 - </ACTIVITY IN PARAMETERS>
- <ACTIVITY_OUT_PARAMETERS>
- <PARAMETER NODE_ID="136" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="ERROR MESSAGES" PARAM_NAME="ERROR_MSG"
 PARAM_TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
 - </ACTIVITY_OUT_PARAMETERS>
 - </ACTIVITY>

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FIG. 21R

_2118

- <ACTIVITY NODE ID="152">
- <ACTIVITY_HEADER ACTIVITY_NOTES="ACTIVITY NOTES"</pre>
- ACTIVITY DESCRIPTION="ACTIVITY DESCRIPTION" />
 - <ACTIVITY IMPLEMENTATION DIRECTIVE VENDOR="DPA"</p>

THREADING_EFFECT="\$TANDARD" DIRECTIVE_NAME="DATA DIRECTIVE"
DIRECTIVE_ID="DB3" DIRECTIVE_VERSION="1" DIRECTIVE_DESC="RETRIEVE
DATA AND ASSEMBLE INTO RESULT SET" />

- <ACTIVITY IN PARAMETERS>
- <PARAMETER NODE_ID="153" PARAM_DATA_TYPE="PARAMITERIZED SQL STRING" PARAM_CAPTION="SQL" PARAM_NAME="SQL" PARAM_TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="VALUE">SELECT USERNAME,EMAIL_ADDRESS FROM OA3.DF_QTYAPP_USERS</ PARAM_SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="154" PARAM_DATA_TYPE="STRING" PARAM_CAPTION="CONNECTION STRING" PARAM_NAME="CONNECTION_STRING" PARAM_TYPE="IN"> <PARAM_SOURCE
- PARAM_TYPE="VALUE">JDBC:ORACLE:THIN:@HD.DPAPPLICATIONS.COM:1521:N RB816</PARAM SOURCE>
 - </PARAMETER>
- <PARAMETER NODE_ID="155" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE USER NAME" PARAM_NAME="USERNAME"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE> </PARAMETER>
- <PARAMETER NODE_ID="156" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="DATABASE PASSWORD" PARAM_NAME="PWD"
 PARAM_TYPE="IN">
 - <PARAM_SOURCE PARAM_TYPE="VALUE">OA3</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="157" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P1" PARAM_NAME="P1" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="158" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P2" PARAM_NAME="P2" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>
- <PARAMETER NODE_ID="159" PARAM_DATA_TYPE="STRING"
 PARAM_CAPTION="P3" PARAM_NAME="P3" PARAM_TYPE="IN">
 <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE>
 </PARAMETER>

FIG. 21S - <PARAMETER NODE ID="160" PARAM DATA TYPE="STRING"

2119

- PARAM CAPTION="P4" PARAM NAME="P4" PARAM TYPE="IN"> <PARAM_SOURCE PARAM_TYPE="ID">13</PARAM_SOURCE> </PARAMETER> - <PARAMETER NODE ID="161" PARAM DATA TYPE="STRING"
- PARAM CAPTION="P5" PARAM NAME="P5" PARAM TYPE="IN"> <PARAM SOURCE PARAM TYPE="ID">13</PARAM SOURCE> </PARAMETER>
 - </ACTIVITY IN PARAMETERS>
- <ACTIVITY OUT PARAMETERS>
- <PARAMETER NODE ID="162" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT DATA" PARAM NAME="RESULTSET" PARAM TYPE="OUT">
- <PARAM SOURCE />
- </PARAMETER>
- <PARAMETER NODE ID="163" PARAM DATA TYPE="STRING" PARAM CAPTION="RESULT METADATA" PARAM NAME="RESULTMETADATA" PARAM TYPE="OUT">
 - <PARAM SOURCE />
 - </PARAMETER>
- </ACTIVITY_OUT_PARAMETERS>
- </ACTIVITY>

U

- </DF WORKFLOW ACTIVITIES>
- <DF WORKFLOW TRANSITIONS>
- <TRANSITION NODE ID="24" FROM ACTIVITY ID="11" TO ACTIVITY ID="18" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="25" FROM ACTIVITY ID="11" TO ACTIVITY ID="21"</p> TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="71" FROM ACTIVITY ID="26" TO ACTIVITY ID="65" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="78" FROM ACTIVITY ID="39" TO ACTIVITY ID="72" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="85" FROM ACTIVITY ID="52" TO ACTIVITY ID="79" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="105" FROM ACTIVITY ID="65" TO ACTIVITY ID="87" TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE_ID="106" FROM ACTIVITY ID="72" TO_ACTIVITY ID="87" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="107" FROM ACTIVITY ID="79" TO ACTIVITY ID="87" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE_ID="115" FROM_ACTIVITY_ID="52" TO ACTIVITY ID="108"</pre> TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="124" FROM ACTIVITY ID="108" TO ACTIVITY ID="116" TRANSITION_EXPRESSION="#114# > "0"" DESCRIPTION="EMAIL ONLY EXCEPTIONS" NOTES="NOTES" />

FIG. 21T

2120

<TRANSITION NODE ID="137" FROM ACTIVITY ID="87" TO ACTIVITY ID="125" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE_ID="164" FROM_ACTIVITY ID="18" TO ACTIVITY ID="152" TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE_ID="165" FROM ACTIVITY ID="21" TO ACTIVITY ID="152" TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="166" FROM ACTIVITY ID="152" TO ACTIVITY ID="26" TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="167" FROM ACTIVITY ID="152" TO ACTIVITY ID="39" TRANSITION EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> <TRANSITION NODE ID="168" FROM ACTIVITY ID="152" TO ACTIVITY ID="52" TRANSITION_EXPRESSION="" DESCRIPTION="DESCRIPTION" NOTES="NOTES" /> </DF WORKFLOW TRANSITIONS> - <DF WORKFLOW EDITOR> <ACTIVITY VISUAL EDITING NODE ID="11" YCOORD="140" XCOORD="12" /> <ACTIVITY VISUAL EDITING NODE ID="18" YCOORD="330" XCOORD="47" /> <ACTIVITY VISUAL EDITING NODE ID="21" YCOORD="50" XCOORD="60" /> <activity visual editing node ID="26" ycoord="200" xcoord="294" /> <activity visual editing node id="39" ycoord="70" xcoord="294" /> <ACTIVITY VISUAL EDITING NODE ID="52" YCOORD="320" XCOORD="304" /> <ACTIVITY VISUAL EDITING NODE ID="65" YCOORD="200" XCOORD="408" /> <ACTIVITY VISUAL EDITING NODE ID="72" YCOORD="70" XCOORD="408" /> <activity visual editing node id="79" ycoord="320" xcoord="428" /> <activity visual editing node id="87" ycoord="200" xcoord="537" /> <ACTIVITY VISUAL EDITING NODE ID="108" YCOORD="430" XCOORD="359" /> <activity visual editing node id="116" ycoord="420" xcoord="587" /> <ACTIVITY VISUAL EDITING NODE ID="125" YCOORD="320" XCOORD="580" /> <ACTIVITY VISUAL EDITING NODE ID="152" YCOORD="200" XCOORD="160" /> </DF WORKFLOW EDITOR> </DF WORKFLOW>

FIG. 22A

2201

<DP QUERY DEF VERSION="1"> <DPA IDENTIFIERS DATA SET="OAS" WH OWNER NAME="PART"/> <HINTS/> <COLUMN DEFS> <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD BUDGET"</p> COLUMN ALIAS="PTD BUDGET" COLUMN SORT ORDER="3" COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="3" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD BUDGET"/> <COLUMN_DEF SUMMARY_TYPE="NONE" COLUMN NAME="LINE NAME" COLUMN ALIAS="LINE NAME" COLUMN SORT ORDER="1" COLUMN SORT ATTRIBUTE="ASC" COLUMN TYPE="ATTRIBUTE" COLUMN EXPR="" COLUMN POSITION="1" TABLE ALIAS="INC STMT LINES D" COLUMN TAG="LINE NAME"/> <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD VARIANCE PCT" COLUMN ALIAS="PTD VARIANCE PCT" COLUMN SORT ORDER="6" COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="6" TABLE ALIAS="INCOME_STMT_A" COLUMN_TAG="PTD_VAR_PCT"/> <COLUMN DEF SUMMARY TYPE="NONE"</p> COLUMN NAME="DEPARTMENT DESC" COLUMN ALIAS="DEPT DESC" COLUMN SORT ORDER="2" COLUMN SORT ATTRIBUTE="ASC" COLUMN TYPE="ATTRIBUTE" COLUMN EXPR="" COLUMN POSITION="2" TABLE ALIAS="DEPARTMENT D" COLUMN TAG="DEPT DESC"/> <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD VARIANCE"</p> COLUMN ALIAS="PTD VARIANCE" COLUMN SORT ORDER="5" COLUMN SORT ATTRIBUTE="NONE" COLUMN TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="5" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD VAR"/> <COLUMN DEF SUMMARY TYPE="SUM" COLUMN NAME="PTD ACTUAL"</p> COLUMN ALIAS="PTD ACTUAL" COLUMN SORT ORDER="4" COLUMN SORT ATTRIBUTE="NONE" COLUMN_TYPE="MEASURE" COLUMN EXPR="" COLUMN POSITION="4" TABLE ALIAS="INCOME STMT A" COLUMN TAG="PTD ACTUAL"/> </COLUMN DEFS>

2202

FIG. 22B

<TABLE DEFS> <TABLE DEF TABLE ALIAS="VENDOR D" TABLE NAME="VENDOR D"/> <TABLE DEF TABLE ALIAS="AP INV DETAIL F" TABLE NAME="AP INV DETAIL F"/> <TABLE DEF TABLE ALIAS="INCOME STMT A" TABLE NAME="INCOME STMT A"/> <TABLE DEF TABLE ALIAS="DEPARTMENT D" TABLE NAME="DEPARTMENT D"/> <TABLE DEF TABLE ALIAS="INC STMT LINES D" TABLE_NAME="INC_STMT LINES D"/> </TABLE DEFS> <DETAIL FILTERS> <FILTER FILTER TYPE="VALUE" COLUMN TEXT="PERIOD KEY"</pre> TABLE ALIAS="AP INV DETAIL F" FILTER PREC OPER="AND" FILTER OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">DEC-97</FILTER VALUE> </FILTER> <FILTER FILTER TYPE="VALUE" COLUMN TEXT="VENDOR TYPE"</pre> TABLE_ALIAS="VENDOR_D" FILTER_PREC_OPER="AND" FILTER_OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">EMPLOYEE/ FILTER VALUE> </FILTER> <FILTER FILTER TYPE="VALUE" COLUMN TEXT="COMPANY KEY" TABLE ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND" FILTER OPERATOR="="> <FILTER_VALUE VALUE_DATA_TYPE="STRING">01</FILTER_VALUE> </FILTER> <FILTER FILTER_TYPE="VALUE" COLUMN_TEXT="DEPARTMENT KEY"</pre> TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND" FILTER OPERATOR="="> <FILTER VALUE VALUE DATA TYPE="STRING">560</FILTER VALUE> </FILTER>

</DETAIL_FILTERS>

<AGGREGATE_FILTERS>

<FILTER FILTER TYPE="VALUE"</pre>

COLUMN_TEXT="SUM(INVOICE_LINE_AMOUNT)" TABLE_ALIAS="AP_INV_DETAIL_F" FILTER_PREC_OPER="AND" FILTER_OPERATOR=">">

<FILTER_VALUE VALUE_DATA_TYPE="NUMBER">0</FILTER_VALUE>
</FILTER>

</AGGREGATE_FILTERS>

</DP_QUERY_DEF>

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FIG. 23A

_2301

- < DP DIMENSIONS>
- <DIMENSION LABEL="ACCOUNTING DATE" NAME="ACCOUNTING_DATE_D">
 <ATTRIBUTE LABEL="ACCOUNTING DATE KEY"

NAME="ACCOUNTING DATE KEY" />

- <a tribute label="accounting month" name="accounting_month" />
- <ATTRIBUTE LABEL="ACCOUNTING PERIOD" NAME="ACCOUNTING_PERIOD" />
- <a triangle <a tri

NAME="ACCOUNTING_PERIOD_KEY" />

<a tribute label="accounting period quarter"

NAME="ACCOUNTING PERIOD QUARTER" />

<a tribute label="Accounting quarter"

NAME="ACCOUNTING QUARTER" />

<ATTRIBUTE LABEL="ACCOUNTING WEEK ENDING"</p>

NAME="ACCOUNTING WEEK ENDING" />

- <attribute label="accounting year" name="accounting_year" /> </dimension>
- <DIMENSION LABEL="ACCOUNT" NAME="ACCOUNT_D">
 - <ATTRIBUTE LABEL="ACCOUNT" NAME="ACCOUNT" />
 - <ATTRIBUTE LABEL="LINE NAME" NAME="LINE NAME" />
 - <a tribute label="line sequence key" name="line sequence key" />
 - <a triple><attribute label="report section" name="report section" />
 - <a tribute label="report sequence" name="report sequence" />
 - <a tribute label="account key" name="account key" />
 - <attribute label="account description" name="account_desc" /> </dimension>
- <DIMENSION LABEL="ACCOUNT ROLLUPS" NAME="ACCOUNT_RLUP_D">
- <a tribute label="account" name="account" />
- <a tribute label="account key" name="account key" />
- <ATTRIBUTE LABEL="ACCOUNT ROLLUP DESCRIPTION"</p>

NAME="ROLLUP DESC" />

- <a tribute label="account rollup code" name="rollup code" />
- <a tribute label="Account Description" NAME="Account_desc" />
- </DIMENSION>

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCI SERVICE SEQUENCES TO PROCI SE SEQUENCES TO PROCI SERVICE SEQUENCES SEQUENCES TO PROCI SERVICE SEQUENCES SEQUE Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 95 of 103

FIG. 23B

NAME="BUYER START DATE ACTIVE" />

</DIMENSION>

```
2302
- <DIMENSION LABEL="AP HOLD CODES" NAME="AP HOLD CODE D">
   <ATTRIBUTE LABEL="AP HOLD CODE" NAME="AP HOLD CODE" />
   <a tribute label="AP HOLD CODE DESCRIPTION"
NAME="AP HOLD CODE DESC" />
   <a tribute label="AP HOLD CODE KEY" NAME="AP_HOLD_CODE_KEY" />
   </DIMENSION>
  - <DIMENSION LABEL="AP HOLD STATUS" NAME="AP HOLD STATUS D">
   <attribute label="ap hold status" name="ap hold status" />
   <ATTRIBUTE LABEL="AP HOLD STATUS KEY" NAME="AP HOLD STATUS KEY" /</p>
   </DIMENSION>
- <DIMENSION LABEL="AP INVOICES" NAME="AP INVOICE D">
   <a href="AP"><a hr
   <ATTRIBUTE LABEL="AP INVOICE DATE" NAME="AP INVOICE DATE" />
   <a tribute label="ap invoice key" name="ap invoice key" />
   </DIMENSION>
- <DIMENSION LABEL="AP INVOICE TYPES" NAME="AP INVOICE TYPE D">
   <a href="AP"><a hr
   <ATTRIBUTE LABEL="AP INVOICE TYPE KEY" NAME="AP INVOICE TYPE KEY" /</p>
>
   </DIMENSION>
- <DIMENSION LABEL="AP PAYMENT TERMS" NAME="AP PAYMENT TERM D">
   <attribute label="ap payment term" name="ap payment term" />
   <a tribute label="AP PAYMENT TERM DESCRIPTION"
NAME="AP PAYMENT TERM DESC" />
   <attribute label="ap payment term key"
NAME="AP PAYMENT TERM KEY" />
   </DIMENSION>
- <DIMENSION LABEL="PO AUTHORIZER" NAME="AUTHORIZER D">
   <a tribute label="authorizer" name="authorizer" />
   <attribute label="authorizer key" name="authorizer key" />
   </DIMENSION>
- <DIMENSION LABEL="BUYERS" NAME="BUYER D">
   <attribute label="buyer" name="buyer" />
   <attribute label="authorization limit"
NAME="BUYER AUTHORIZATION LIMIT" />
   <attribute label="end date active" name="buyer end date active" />
   <attribute label="buyer key" name="buyer key" />
   <attribute label="Start date active"
```

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS FOR DEFINING EXECUTABLE SEQUENCES TO PROCLEM FORMATION FROM A DATA COLLECTION Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 96 of 103

```
FIG. 23C
                                                                                                                                                             2303
- <DIMENSION LABEL="COMPANY" NAME="COMPANY D">
   <attribute label="company" name="company" />
   <a tribute label="company description" name="company desc" />
   <a tribute label="company key" name="company key" />
   </DIMENSION>
- <DIMENSION LABEL="CURRENCY" NAME="CURRENCY D">
   <a tribute label="currency" name="currency" />
   <a href="currency description" name="currency desc" />
   <a tribute label="currency key" name="currency key" />
   </DIMENSION>
 - < DIMENSION LABEL="DEPARTMENT" NAME="DEPARTMENT D">
  <attribute label="Department" name="Department" />
  <attribute label="department key" name="department key" />
   <ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT DESC" /</p>
   </DIMENSION>
- <DIMENSION LABEL="DEPARTMENT ROLLUPS" NAME="DEPARTMENT RLUP D">
   <attribute label="department" name="department" />
   <attribute label="department rollup desc" name="rollup desc" />
   <a tribute label="department rollup code" name="rollup code" />
   <ATTRIBUTE LABEL="DEPARTMENT DESCRIPTION" NAME="DEPARTMENT DESC" /</p>
>
  <a tribute label="department key" name="department_key" />
   </DIMENSION>
- <DIMENSION LABEL="AP DUE DATES" NAME="DUE DATE D">
   <a tribute label="due date key" name="due date key" />
   <ATTRIBUTE LABEL="DUE MONTH" NAME="DUE MONTH" />
  <attribute label="due period" name="due period" />
  <a triple <a>ATTRIBUTE LABEL="DUE PERIOD KEY" NAME="DUE PERIOD KEY" /><a triple <a tri
  <a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a><a triangle <a triangle <a triangle <a><a triangle <a triangle <a triangle <a><a triangle <a triangle <a triangle <a triangle <a triangle <a><a triangle <a triangle 
   <a tribute label="due quarter" name="due quarter" />
  <a tribute label="Due week ending" name="due week ending" />
   <attribute label="due year" name="due year" />
   </DIMENSION>
- <DIMENSION LABEL="INVOICE DATES" NAME="INVOICE DATE D">
   <attribute label="invoice date key" name="invoice date key" />
   <a tribute label="Invoice month" name="invoice_month" />
  <a tribute label="invoice period" name="invoice period" />
  <a tribute label="invoice period key" name="invoice period key" />
   <a tribute label="invoice period quarter"
NAME="INVOICE PERIOD QUARTER" />
   <attribute label="invoice quarter" name="invoice quarter" />
  <a tribute label="invoice week ending" name="invoice week ending" />
  <a tribute label="invoice year" name="invoice year" />
  </DIMENSION>
```

- <DÎMÊNSION LABEL="JE BATCHS" NAME="JE_BATCH_D">

<attribute label="default period name"

<attribute label="name" name="name" /> <attribute label="org id" name="org id" />

NAME="DEFAULT PERIOD NAME" />

```
</DIMENSION>
      - < DIMENSION LABEL="ORGANIZATIONS" NAME="ORGANIZATION D">
        <ATTRIBUTE LABEL="ORGANIZATION" NAME="ORGANIZATION" />
        <a tribute label="organization key" name="organization key" />
       <ATTRIBUTE LABEL="ORGANIZATION TYPE" NAME="ORGANIZATION_TYPE" />
        </DIMENSION>
- <DIMENSION LABEL="PA PROJECTS" NAME="PA PROJECT D">
        <ATTRIBUTE LABEL="PROJECT KEY" NAME="PA PROJECT KEY" />
Ī
       <attribute label="project complete date"
Uī
       NAME="PROJECT COMPLETE DATE" />
HCJ
        <ATTRIBUTE LABEL="PROJECT MANAGER" NAME="PROJECT MANAGER" />
        <attribute label="project name" name="project name" />
        <attribute label="project number" name="project number" />
        <attribute label="project officer" name="project officer" />
        <ATTRIBUTE LABEL="PROJECT SPONSOR" NAME="PROJECT SPONSOR" />
       <ATTRIBUTE LABEL="PROJECT START DATE" NAME="PROJECT START DATE" />
        <ATTRIBUTE LABEL="PROJECT STATUS" NAME="PROJECT STATUS" />
        <ATTRIBUTE LABEL="PROJECT TITLE" NAME="PROJECT TITLE" />
        <attribute label="project type" name="project type" />
        </DIMENSION>
      - <DIMENSION LABEL="PA TASKS" NAME="PA TASK D">
        <attribute label="parent task key" name="parent task key" />
        <a tribute label="task location" name="task location" />
        <attribute label="task name" name="task name" />
        <attribute label="task manager" name="task manager" />
        <attribute label="top task name" name="top task name" />
```

<attribute label="task wbs" name="task wbs" />

<attribute label="task key" name="pa_task_key" />

</DIMENSION>

FIG. 23D

<attribute label="actual flag" name="actual flag" /> <attribute label="je batch key" name="je batch key" /> <ATTRIBUTE LABEL="DESCRIPTION" NAME="DESCRIPTION" /> <attribute label="date created" name="date created" /> <attribute label="top task key" name="top task key" /> <attribute label="task start date" name="task start date" /> <attribute label="task number" name="task number" /> <a tribute label="task description" name="task desc" /> <attribute label="parent task name" name="parent task name" /> <a tribute label="project key" name="pa project key" /> <ATTRIBUTE LABEL="TASK COMPLETE DATE" NAME="TASK COMPLETE DATE" /</p>

FIG. 23E

- <DIMENSION LABEL="PERIODS" NAME="PERIOD_D">
 - <ATTRIBUTE LABEL="PERIOD" NAME="PERIOD" />
 - <a tribute label="period end date" name="period end date" />
- <ATTRIBUTE LABEL="PERIOD KEY" NAME="PERIOD_KEY" />
- <a tribute label="Period Start Date" Name="Period Start Date" />

- <a tribute label="Period Type" name="Period Type" />
- <attribute label="Quarter" name="Quarter" />
- <attribute label="Year" Name="Year" />
- </DIMENSION>
- <DIMENSION LABEL="PRODUCT" NAME="PRODUCT_D">
 - <ATTRIBUTE LABEL="PRODUCT" NAME="PRODUCT" />
 - <ATTRIBUTE LABEL="PRODUCT DESCRIPTION" NAME="PRODUCT DESC" />
 - <attribute label="product key" name="product_key" />
 - </DIMENSION>
- <DIMENSION LABEL="PA PROJECT CLASSES" NAME="PROJECT_CLASS_D">
- <attribute label="project class category"
- NAME="PROJECT_CLASS_CATEGORY" />
- <ATTRIBUTE LABEL="PROJECT CLASS CODE" NAME="PROJECT_CLASS_CODE" /</pre>
- <ATTRIBUTE LABEL="PROJECT CLASS DESCRIPTION"</p>
- NAME="PROJECT CLASS DESCRIPTION" />
- <ATTRIBUTE LABEL="PROJECT KEY" NAME="PROJECT_KEY" />
- </DIMENSION>
- <DIMENSION LABEL="PO REQUESTORS" NAME="REQUESTOR D">
 - <a tribute label="requestor" name="requestor" />
 - <a tribute label="requestor key" name="requestor_key" />
 - </DIMENSION>
- <DIMENSION LABEL="SUB-ACCOUNT" NAME="SUB ACCOUNT D">
- <ATTRIBUTE LABEL="SUB-ACCOUNT" NAME="SUB ACCOUNT" />
-
- ATTRIBUTE LABEL="SUB-ACCOUNT DESCRIPTION"
- NAME="SUB ACCOUNT DESC" />
 - </DIMENSION>
- <DIMENSION LABEL="AP VENDORS" NAME="VENDOR D">
 - >><a trive="act
 - <ATTRIBUTE LABEL="ACTIVE FLAG" NAME="ACTIVE FLAG" />
 - <a triver start date" name="active start date" />
 - <a tribute label="vendor site address line1" name="address line1" />
 - <a tribute label="vendor site address line2" name="address line2" />
 - <ATTRIBUTE LABEL="VENDOR SITE ADDRESS LINE3" NAME="ADDRESS LINE3" />
 - <a tribute label="vendor site area code" name="area code" />
 - <a tribute label="vendor site city" name="city" />
- <a tribute label="vendor hold reason" name="hold reason" />
- <ATTRIBUTE LABEL="VENDOR SITE PHONE NUMBER" NAME="PHONE_NUMBER" /</p>

Gregory L. Maurer, Esq., Klarquist Sparkman, LLP, 121 S.W. Salmon Street, Suite 1600, Portland, Oregon 97204, (503) 226-7391, Inventors: Scheurich et al., Title: SYSTEMS AND METHODS TO R DEFINING EXECUTABLE SEQUENCES TO PROCE NFORMATION FROM A DATA COLLECTION (Application No. 09/925,103, Filed: August 9, 2001, Attorney Docket No.: 6115-60713, Page 99 of 103

```
FIG. 23F
                                                                                                                2306
  <ATTRIBUTE LABEL="VENDOR SITE PROVINCE" NAME="PROVINCE" />
  <ATTRIBUTE LABEL="VENDOR SITE STATE" NAME="STATE" />
  <a tribute label="Vendor tax federal flag"
NAME="TAX FEDERAL REPORT FLAG" />
  <a tribute label="Vendor tax reporting name"
NAME="TAX REPORTING NAME" />
  <attribute label="Vendor Tax State Flag"
NAME="TAX STATE REPORT FLAG" />
  <a href="VENDOR 1099 NUMBER" NAME="VENDOR 1099 NUM" />
  <ATTRIBUTE LABEL="VENDOR 1099 TYPE" NAME="VENDOR 1099 TYPE" />
  <a tribute label="Vendor corporate group"
NAME="VENDOR CORPORATE GROUP" />
  <ATTRIBUTE LABEL="VENDOR INDUSTRY CLASS"</p>
NAME="VENDOR INDUSTRY CLASS" />
  <a tribute label="vendor key" name="vendor key" />
  <ATTRIBUTE LABEL="VENDOR NAME" NAME="VENDOR NAME" />
  <a href=""><attribute label="Vendor number" name="Vendor number" /></a>
  <a tribute label="Vendor organization type"
NAME="VENDOR ORG TYPE" />.
  <attribute label="vendor payment priority"
NAME="VENDOR PAYMENT PRIORITY" />
  <ATTRIBUTE LABEL="VENDOR PAY GROUP" NAME="VENDOR PAY GROUP" />
  <ATTRIBUTE LABEL="VENDOR SITE CODE" NAME="VENDOR SITE CODE" />
  <a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a><a triangle <a triangle <a><a triangle <a><a triangle <a><a triangle <a triangle <a><a triangle <a triangle <a triangle <a triangle <a triangle <a><a triangle <a tri
  <ATTRIBUTE LABEL="VENDOR TYPE" NAME="VENDOR TYPE" />
  <ATTRIBUTE LABEL="VENDOR SITE ZIP" NAME="ZIP" />
  </DIMENSION>
- <DIMENSION LABEL="AP INVOICE DETAILS" NAME="AP INV DETAIL F">
  <ATTRIBUTE LABEL="ACCOUNTING DATE" NAME="ACCOUNTING DATE" />
  <ATTRIBUTE LABEL="ACCOUNTING DATE KEY" NAME="ACCOUNTING DATE KEY"</p>
/>
  <ATTRIBUTE LABEL="ACCOUNT KEY" NAME="ACCOUNT KEY" />
  <ATTRIBUTE LABEL="APPROVAL STATUS" NAME="APPROVAL STATUS" />
  <a triangle <a>ATTRIBUTE LABEL="AP INVOICE KEY" /><a triangle <a triangle <a>ATTRIBUTE LABEL="AP INVOICE KEY" NAME="AP INVOICE KEY" /></a>
  <ATTRIBUTE LABEL="AP INVOICE TYPE KEY" NAME="AP_INVOICE TYPE KEY" />
  <ATTRIBUTE LABEL="AP PAYMENT TERM KEY" NAME="AP PAYMENT TERM KEY"</p>
/>
  <attribute label="buyer key" name="buyer key" />
  <ATTRIBUTE LABEL="COMPANY KEY" NAME="COMPANY KEY" />
  <ATTRIBUTE LABEL="INVOICE CURRENCY CODE" NAME="CURRENCY KEY" />
  <ATTRIBUTE LABEL="DEPARTMENT KEY" NAME="DEPARTMENT KEY" />
  <ATTRIBUTE LABEL="DUE DATE" NAME="DUE DATE" />
  <attribute label="due date key" name="due date key" />
```

<ATTRIBUTE LABEL="TOTAL INVOICE AMOUNT" NAME="INVOICE_AMOUNT" />

FIG. 23G

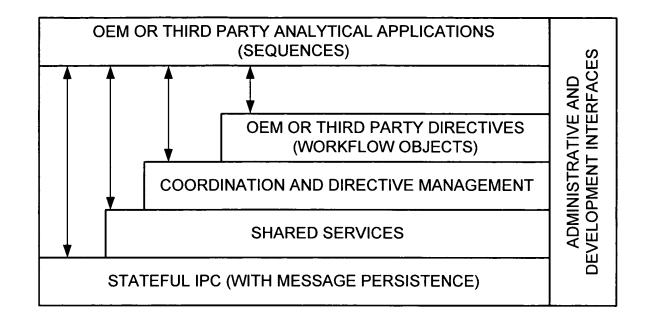
2307

<ATTRIBUTE LABEL="INVOICE DATE" NAME="INVOICE DATE" /> <attribute label="invoice date key" name="invoice date key" /> <a triple continue

<a href="invoice description" name="invoice description" n <a tribute label="Invoice line description" NAME="INVOICE_LINE_DESC" /> <a tribute label="invoice line number" name="invoice line number" / <a triple><attribute label="invoice line type" name="invoice line type" /> <a tribute label="invoice number" name="invoice number" /> <attribute label="invoice tax amount" name="invoice tax amount" /> <a tribute label="organization key" name="organization key" /> <attribute label="paid amount" name="paid amount" /> <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a triple <a><a triple <a><a triple <a><a triple <a><a triple <a>< <attribute label="pa task key" name="pa task key" /> <attribute label="period key" name="period key" /> <a triple><attribute label="posted flag" name="posted flag" /> <attribute label="po creation date" name="po created date" /> <a tribute label="po number" name="po number" /> <a tribute label="product key" name="product key" /> <attribute label="recurring invoice flag" NAME="RECURRING INVOICE FLAG" /> <a tribute label="Sub-account key" name="Sub-account key" /> <ATTRIBUTE LABEL="TRANSLATED CURRENCY CODE"</p> NAME="TRANSLATED CURRENCY CODE" /> <attribute label="vendor key" name="vendor key" /> </DIMENSION> </DP DIMENSIONS> - <MEASURES LABEL="AP INVOICE DETAILS" NAME="AP INV DETAIL F"> <MEASURE LABEL="ACCOUNTING (PRE-AP) LAG DAYS"</p> NAME="ACCOUNTING LAG DAYS" /> <MEASURE LABEL="INVOICE LINE AMOUNT" NAME="INVOICE LINE AMOUNT" /> <MEASURE LABEL="INVOICE LINE EXCHANGE RATE VARIANCE"</p> NAME="INVOICE LINE EXCH RATE VAR" /> <MEASURE LABEL="INVOICE LINE PRICE VARIANCE"</p> NAME="INVOICE LINE PRICE VARIANCE" /> <MEASURE LABEL="NUMBER OF INVOICE LINES"</p> NAME="NUMBER INVOICE LINES" /> <MEASURE LABEL="TRANSLATED CURRENCY AMOUNT"</p> NAME="TRANSLATED CURRENCY AMOUNT" /> <MEASURE LABEL="UNPAID AMOUNT" NAME="UNPAID AMOUNT" /> </MEASURES> </DP SCHEMA DOC>

FIG. 24





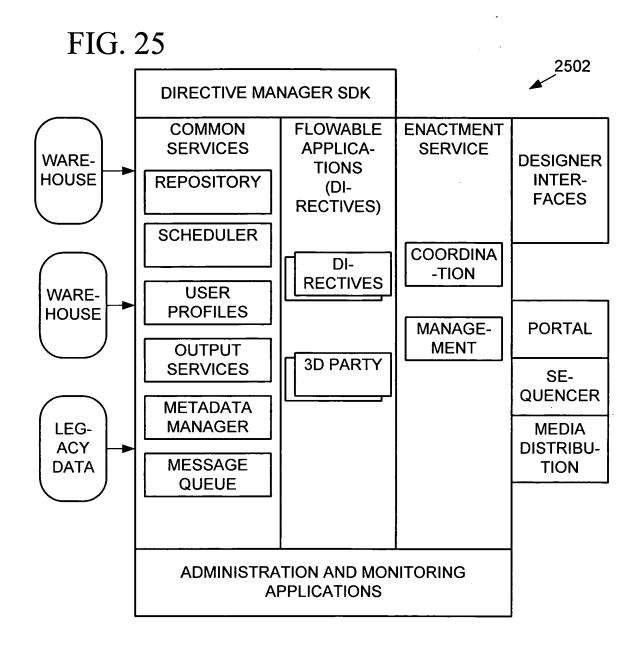


FIG. 26

